



GMC

2015

**Express/Savana
Navigation System**



2015 Chevrolet/GMC Express/Savana Navigation System

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Introduction



The names, logos, emblems, slogans, vehicle model names, and vehicle body designs appearing in this manual including, but not limited to, GM, the GM logo, CHEVROLET, the CHEVROLET Emblem, and the name EXPRESS, GMC, the GMC Truck Emblem, and the name SAVANA are registered trademarks of General Motors Corporation LLC.

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Part No. 23203679 A First Printing

The information in this manual supplements the owner manual. This manual includes the latest information available at the time it was printed. We reserve the right to make changes in the product after that time without notice. For vehicles first sold in Canada, substitute the name General Motors of Canada Limited for Chevrolet Motor Division or GMC whenever it appears in this manual.

Keep this manual with the owner manual in the vehicle, so it will be there if it is needed. If the vehicle is sold, leave this manual in the vehicle.

Canadian Vehicle Owners

Propriétaires Canadiens

A French language copy of this manual can be obtained from your dealer or from:

On peut obtenir un exemplaire de ce guide en français auprès du concessionnaire ou à l'adresse suivante:

Helm, Incorporated
P.O. Box 07130
Detroit, MI 48207

1-800-551-4123
Numéro de poste 6438 de langue française
www.helminc.com

Overview

Read this manual thoroughly to become familiar with how the navigation system operates.

The navigation system includes navigation and audio functions.

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Keeping your eyes on the road and your mind on the drive is important for safe driving. The navigation system has built-in features intended to help with this by disabling some features when driving. A grayed-out function is not available when the vehicle is moving.

All functions are available when the vehicle is parked. Do the following before driving:

- Become familiar with the navigation system operation, buttons on the faceplate, and touch-sensitive screen buttons.
- Set up the audio by presetting favorite stations, setting the tone, and adjusting the speakers.
- Set up the navigation features, such as entering an address or a preset destination.
- Set up phone numbers in advance so they can be called easily by pressing a single

button or by using a single voice command for navigation systems equipped with phone capability.

Warning

Taking your eyes off the road for too long or too often while using the infotainment or navigation system could cause a crash.

You or others could be injured or killed. Do not give extended attention to these tasks while driving. Limit glances at the vehicle displays and focus your attention on driving. Use voice commands whenever possible.

Use the navigation system to:

- Plan a route.
- Select a destination using various methods and choices.

- Follow turn-by-turn route and map guidance with voice prompts, only if permitted by traffic laws, controls, and conditions.
- Receive RDS broadcast announcements.

Always be alert and obey traffic and roadway laws and instructions, regardless of the guidance from the navigation system. Because the navigation system uses street map information that does not include all traffic restrictions or the latest road changes, it may suggest using a road that is now closed for construction or a turn that is prohibited by signs at the intersection. Always evaluate whether following the system's directions is safe and legal for the current conditions.

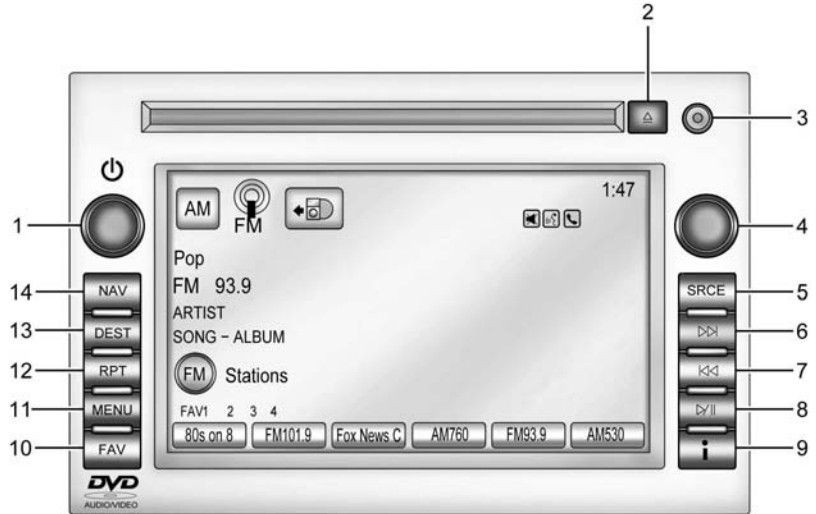
When the navigation system is turned on, a screen may appear with information that must be read and acknowledged before accessing some navigation features.

After acknowledging the start up information, the NAV (Navigation) and DEST (Destination) functions are accessible. Information can now be entered or deleted, and other functions accessed. See instructions later in this section.






Every 50 times the vehicle is started and the navigation system is turned on, the Caution screen appears. After reading the caution, select OK to load the map data information. If OK is not selected, all control buttons except for NAV (Navigation) and DEST (Destination) can be accessed.

When getting started, set your preferences or delete information in the navigation system using various options.

Navigation System Overview

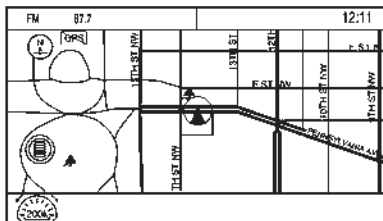


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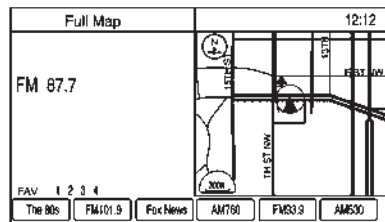
1.  (Power/Volume)
2.  (Eject)
3. Auxiliary Input Jack
4. Multifunction Knob
5. SRCE (Source)
6.  (Seek Next/Forward)
7.  (Seek Previous/Reverse)
8.  (Play/Pause)
9.  (Information)
10. FAV (Favorite)
11. MENU
12. RPT (Repeat)
13. DEST (Destination)
14. NAV (Navigation)

NAV (Navigation) Menu

The Navigation menu screen accesses the navigation system settings.

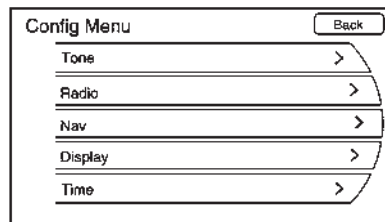


1. Press NAV to view the navigation map screen. The map and the vehicle's current location displays.
2. Press NAV to change between a map/audio split view or a full map view.



Config Menu

Press MENU to display the Config Menu. The Config Menu is used to change the screens for the radio, navigation display, phone, vehicle configuration, and time features.



Turn the Multifunction knob to scroll through the available setup features. Once the desired feature displays,

press the Multifunction knob or press the desired feature on the screen to display more options within that feature.

Languages

To change the display language, see “Vehicle Personalization” in the owner manual.

The vehicle supports English, French (Canadian), and Spanish. The default language is English.

English and Metric Unit Conversion

To change the display readings between English and metric units, see “Driver Information Center (DIC)” in the owner manual.

Deleting Personal Information




The navigation system can record and store destinations and personal information such as names and addresses.

At times, such as when selling or disposing of the vehicle, you may want to delete this information:

- Previous Destinations.
- Address Book, Fav Route, Preset Destinations, and HDD music files.

Storing Radio Station Presets

Up to 36 preset stations can be stored. AM, FM, and SiriusXM® (if equipped) can be mixed. To store presets:

1. Press  to turn the system on.
2. If viewing a map screen, press SRCE, FAV, or the source screen button.
3. Select the band.
4. Press  or , or turn the Multifunction knob to select the desired station.
5. Press and hold one of the preset screen buttons for more than two seconds.

6. Repeat the steps for each preset.

To change the number of preset pages, see *AM-FM Radio on page 10*.

Entering an Address and Point of Interest, and Storing Preset Destinations

The vehicle must be in P (Park) to perform these operations.

Entering an Address



If having trouble finding a city or a street name:

- Enter the street name first instead of the city name, or vice versa.
- Enter more characters or reduce the number of characters to reduce or expand the available options.

To set a destination by entering a street name:

1. Press DEST.

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- If necessary, enter the state/province name. The last state/province name is automatically recalled.
- Select the street name field. Enter the street name. Do not enter directional information or street type. Use the space  screen button between street and city names. Use the backspace  screen button to delete an incorrect character.


A list displays if four or fewer names are available. If there are more than four, there is a match counter with a number of available streets. Press the List button to view the list and select the street.
- Select the city from the list or enter the city name.
- Enter the house number. This field is automatically selected.
- Press OK. The address information screen displays the address entered.

- Press Go if correct. The route will calculate.
- Select the route preference for Fastest, Shortest, or Easiest. The chosen route preference highlights. See *Destination on page 50*.
- Press the Start Guidance screen button and the route is now ready to be started.

See “Address Entry” under *Destination on page 50*.

Entering a Point of Interest (POI)

To set a destination by entering a Point of Interest (POI):

- Press  to turn the system on.
- A caution could appear. Press OK to proceed.
- Press DEST.
- Press the Point of Interest screen button.


- Enter the specific title of the POI in the POI name space.

If four or fewer names are available, a list displays. If more than four are available, there is a match counter with a number in it, representing the number of available POI names. Press List to view the list. Select the POI.

- Press Go. The system calculates the route.
- Select the route preference for Fastest, Shortest, or Easiest. The system highlights the route.
- Press the Start Guidance screen button. The route is now ready to be started.

See “Point of Interest (POI)” under *Destination on page 50*.


Storing Preset Destinations

- Press  to turn the system on.
- A caution could appear. Press OK to proceed.
- Press DEST.

4. Enter a destination. See *Destination on page 50*.
5. Press Save from the map screen to add the current final destination to the address book. The address book screen appears.
6. Press the Edit screen button. An alpha-keyboard displays. Enter the name.
7. Press and hold one of the screen buttons at the bottom of the screen until the text in the button changes. The address book entry name appears in that preset destination screen button and is now available to select from the Select Destination screen. See "Using the Stored Preset Destinations" following to select it as a destination. See "Preset Destination" under *Destination on page 50*.

Using the Stored Preset Destinations

These destinations are available for selection while driving.

1. Press  to turn the system on.
2. A caution could appear. Press OK to proceed.
3. Press DEST.
4. Press one of the available preset destination screen buttons. The system calculates the route.
5. Select the route preference for Fastest, Shortest, or Easiest. The system highlights the route.
6. Press the Start Guidance screen button. The route is now ready to be started.

See "Preset Destination" under *Destination on page 50*.

Canceling Guidance

Guidance is canceled once you arrive at the final destination. To cancel guidance prior to arrival at the final destination:

1. Press DEST.
2. Press the Cancel Guidance screen button.
3. Press Yes to confirm cancellation.

Voice Guidance

To adjust the volume of voice guidance prompts:

1. Press MENU to enter the Config Menu features. Turn the Multifunction knob until Nav displays. Press the Multifunction knob to select Nav or press the Nav screen button to display more options within that feature.
2. Press the Voice Prompt screen button.
3. Press the Voice Volume screen button.

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- Press + or – to increase or to decrease the volume of the voice prompts.

See “Voice Volume” under *Using the Navigation System on page 41*.

Cleaning the Display

Caution

Using abrasive cleaners when cleaning glass surfaces could scratch the glass. Use only a soft cloth and do not spray cleaner directly on the system as it could affect the mechanical parts.

Do not wipe the panel with a hard cloth or use a volatile liquid such as paint thinner. It could scratch the surface or erase the characters on the buttons.

Radio

AM-FM Radio

Playing the Radio

Audio Source Menu

(Power/Volume):

- Press to turn the radio on or off.
- Turn to increase or decrease the volume. The volume is adjusted for the current audio source, active navigation voice guidance, or voice prompts.

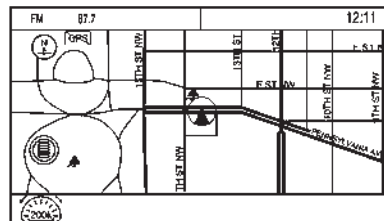
The steering wheel controls can also be used to adjust the volume. See “Steering Wheel Controls” in the owner manual.

Also, see “Radio Settings” in this section.

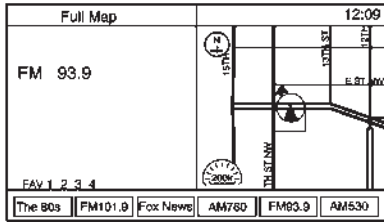
Multifunction Knob: Turn to change the radio station. See “Finding a Station” later in this section.

SRCE (Source): Press to select AM, FM, SiriusXM® (if equipped), HDD, DISC, USB, AUX, or AV.

The audio sources can also be changed by using the steering wheel controls. See “Steering Wheel Controls” in the owner manual.



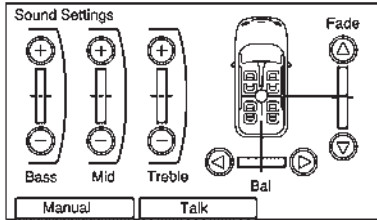
If the audio system is on and a map screen is being viewed, audio information displays at the top of the map screens.



Press the audio display screen button to display the current audio source screen. The display shows a split screen with the audio source screen on the left side and the map or guidance screen on the right side. Press the Full Map screen button to exit the split view screen.

Navigation Audio System

Tone Settings



To access the sound menu, press MENU, then select Tone.

Setting the Tone

To adjust the bass, treble, and midrange using the sound menu:

- Bass: Press + or - to change the level.
- Mid (Midrange): Press + or - to change the level.
- Treble: Press + or - to change the level.

Adjusting the Speakers

To adjust the speaker balance:

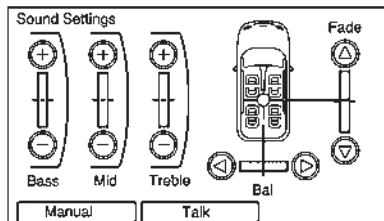
- Press and hold ◀ for more sound from the left speakers or ▶ for more sound from the right speakers. The middle position balances the sound between the left and right speakers.

To adjust the speaker fade:

- Press and hold ▲ for more sound from the front speakers and ▼ for more sound from the rear speakers. The middle position balances the sound between the front and rear speakers.

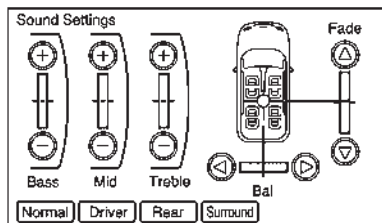
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EQ Settings



There are two different sound systems available for the vehicles included in this navigation system supplement. Some vehicles will have the EQ setting options that include Manual or Talk. Other vehicles have the EQ setting options of Normal, Driver, Rear, and Surround.

EQ (Equalization): The EQ settings are selected through the sound menu.



The following touch-sensitive buttons are at the bottom of the screen:

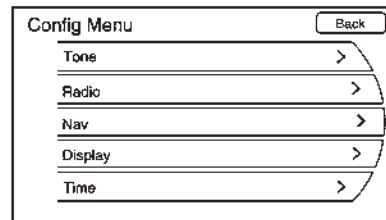
Normal: Select to adjust the audio to be in normal mode. This provides the best sound quality for all seating positions.

Driver: Select to adjust the audio to give the driver the best possible sound quality.

Rear: Select to adjust the audio to give the rear seat occupants the best possible sound quality.

Surround: Select to adjust the audio to give the best overall sound quality for all seating positions.

Radio Settings



To access the Radio settings menu, press MENU to display the Config Menu. Turn the Multifunction knob to scroll through the available features until the Radio feature displays. Press this feature to display more options.

Audio system settings or features can be customized for:

Audio Pilot (If Equipped)

Select OFF, Low, Medium, or High sensitivity to automatically adjust the volume to minimize the effects of unwanted background noise that can result from changing road surfaces, driving speeds or open

windows. This feature works best at lower volume settings where background noise is typically louder than the sound system volume.

Number of Favorite Pages

Change the number of mixed-band preset pages when using FAV. Press 1-6 to select the number of preset lists.

HDD FAV Pages (Number of Favorite Categories for HDD Mode)

Select the categories such as Playlist, Artist, Album, and Genre to be used as a favorite category during HDD mode.

DivX® VOD

The DivX VOD feature must be registered before it can be used.

1. Press the DivX VOD screen button to display the DivX Video on Demand menu.



2. Press the Registration Code screen button to display the Registration Code information display.
3. Press the Deactivation option to unregister this device.

Finding a Station

Select the band. See "Audio Source Menu" previously in this section.

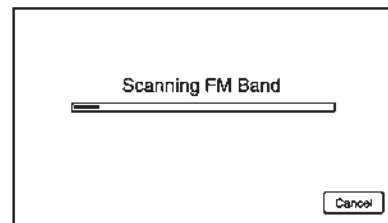
Turn the Multifunction knob to find a radio station. To select a preset station, press the corresponding preset button.

See "Mixed-Band Presets" following.

Seeking a Station

Press \lll or \ggg to search for a station.

Local Station List Search



To find a list of local stations in the current AM or FM band, press the Multifunction knob or touch the audio source screen. The radio performs a search for available stations.

Mixed-Band Presets

Up to 36 preset stations can be stored. Each page can store six preset stations. The presets within a page can be from different radio bands.

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To scroll through the pages, press FAV. The current page number displays above the preset buttons. The stored stations for each Favorites page displays on the touch-sensitive preset buttons at the bottom of the screen. The number of preset FAV lists can be changed.

To store a radio station to a mixed-band preset list:

1. Press SRCE, then press AM, FM, or SiriusXM (if equipped) to select the desired band.
2. Tune to the station.
3. Press and hold one of the preset buttons for more than two seconds. The station frequency appears on the preset button at the bottom of the display.
4. Repeat the steps for each preset in the Favorites page.

To recall a preset station from a FAV page:

1. Press FAV to scroll to the page.

2. Press the preset button. The stored preset station is recalled.

Timeshift

The Timeshift feature automatically begins recording the audio when listening to the radio.

The recording allows playback of content that was missed.

Timeshift stores up to 20 minutes of content. After 20 minutes, it removes the oldest content and continues recording new content.

When listening to a station for more than 20 seconds, press ▷/|| (play/pause) to stop hearing the information through the speaker. During this paused time, timeshift keeps recording. A status bar displays the length of the recording.

Press ◀◀ to rewind what was stored into the timeshift.

To resume listening to the broadcast at the point where you left off, press ▷/|| again.

Timeshift stops recording and erases the buffer when the station or source is changed.

Alternatively, before turning the vehicle off, press ▷/|| so that timeshift keeps recording for 20 minutes. If the vehicle is still off after 20 minutes, the system stops recording and all information is lost. If a low battery condition occurs, timeshift stops recording and all information is erased.

Radio Data System (RDS)

The audio system has RDS. RDS features are available for use only on FM stations that broadcast RDS information. With RDS, the radio can seek to stations broadcasting the selected type of programming.

Satellite Radio

SiriusXM® Satellite Radio Service

Vehicles with an SiriusXM satellite radio tuner and a SiriusXM satellite radio subscription can receive SiriusXM programming.

SiriusXM is a satellite radio service based in the 48 contiguous United States and 10 Canadian provinces. SiriusXM Satellite Radio has a wide variety of programming and commercial-free music, coast-to-coast, and in digital-quality sound. A service fee is required to receive the SiriusXM service. For more information, see www.siriusxm.com or call 1-866-635-2349 in the U.S. or in Canada, www.xmradio.ca or call 1-877-209-0079.

When SiriusXM is active, the channel name and number, category name, song title, and artist display on the screen.

XM Categories

XM stations are organized in categories.

Removing or Adding Categories

1. Turn the Multifunction knob until Radio displays. Press the Multifunction knob to select Radio or press the Radio screen button to display more options within that feature.
2. Select the Show/Hide XM Categories screen button.
3. Press the category screen buttons to show or hide the category.

Audio Players

CD/DVD Player

The player can be used for CD, MP3, and DVD audio, and as a DVD video player.

With the ignition on, insert a CD/DVD into the slot, label side up. The player pulls it in and begins playing. While playing, the navigation system is available.

The vehicle must be in P (Park) for video to display.

The DVD player is only compatible with DVDs of the appropriate region code that is printed on the jacket of most DVDs.

The system is capable of playing:

- Most audio CDs
- CD-R
- CD-RW
- MP3 or unprotected WMA formats
- DVD-Video

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- DVD-Audio
- DVD-R/RW
- DVD+R/RW

When playing any compatible recordable disc, the sound quality can be reduced due to disc quality, the method of recording, the quality of the music or video that has been recorded, or the way the disc has been handled.

There can be increased skipping, difficulty in recording tracks, and difficulty in finding tracks/chapters and/or difficulty in loading and ejecting. If these problems occur, check the disc for damage or try a known good disc.

To avoid damage to the CD/DVD player:

- Do not use scratched or damaged discs.
- Do not apply labels to discs. The labels could get caught in the player.
- Insert only one disc at a time.

- Keep the loading slot free of foreign materials, liquids, and debris.


If a description label is needed, try labeling the top of the disc using a marking pen.

Loading and Ejecting Discs

To load a disc:

1. Turn the ignition on.
2. Insert a disc into the slot, label side up. The player pulls it in the rest of the way. If the disc is damaged or improperly loaded, there is an error and the disc ejects.

The disc automatically plays once loaded.

Press  to eject a disc from the CD/DVD player.

Playing a CD/DVD

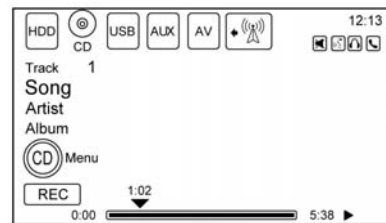
A disc must be loaded to select the source.

When a disc is loaded, the Disc icon displays.

There are two ways to play a CD/DVD:


- Insert the disc and playback starts automatically.
- Press SRCE, then press the Disc screen button.

Playing an Audio CD



A track number displays at the beginning of each track. Song, Artist, and Album information displays when available.

Use the following controls to play the disc:

 **(Play/Pause):** Press to start, pause, or resume play.

⏮ (Seek Next/Forward):

- Seeks to the next track.
- Press and hold to fast forward through a track. Release this button to return to playing speed. Elapsed time displays.

⏪ (Seek Previous/Reverse):

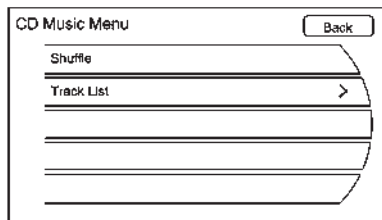
- Press to seek to the beginning of the current or previous track. If the track has been playing for fewer than five seconds, it seeks the previous track. If longer than five seconds, the current track starts from the beginning.
- Press and hold to fast reverse through a track. Release this button to return to playing speed. Elapsed time displays.

Multifunction Knob: Turn to the right or left to go to the next or previous track.

MENU: Press this knob or touch the CD Menu on the screen to display the track list option, then

select the track from the list. The system plays the selected track and returns to the CD screen.

CD Menu

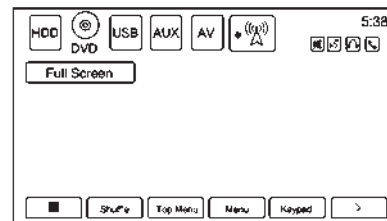


Press the CD Menu screen button to display the CD Music Menu.

Shuffle: Plays the tracks randomly rather than in sequence. Press again to stop shuffle. A checkmark indicates shuffle is on.

Track List: Displays the list of tracks on the disc. Select the track from the list. The selected track plays and the CD screen displays.

Playing an Audio and Video DVD



To view the DVD video, the vehicle must be in P (Park) for an automatic transmission or the parking brake must be set for a manual transmission.

After the DVD is loaded, the menu options display on the DVD screen. The menu options time out and a full screen appears after about 10 seconds. Press anywhere on the navigation system screen or press FAV or SRCE to view the menu screen again.

Use the preset screen buttons or press other appropriate screen buttons to operate the DVD options.

There are two pages of DVD options. Press the arrow button, in the bottom right corner of the screen, to access the other page. Only the highlighted functions are available for use. Some menu options are only available when the disc is not playing.

DVD Options

Full Screen: Select to hide the DVD options and display the full video image. Press anywhere on the navigation system screen or press FAV or SRCE to re-display the source screen buttons over the video image.

Cursor: Press to access the cursor menu. The arrows and other cursor options allow navigation of the DVD menu options. The cursor menu options are only available if a DVD has a menu.

◀, ▲, ▶, ▼ (Arrow Buttons): Press these arrow buttons to move around the DVD menu.

▷/|| (Play/Pause): Press to start, pause, or resume play.

⏮ (Seek Next/Forward):

1. Press to seek to the next chapter.
2. Press more than once to continue moving forward through the disc.
3. Press and hold to fast forward through a disc. When fast forward is active, press again to change the speed. Elapsed time displays.
4. Press ▷/|| to resume playing.

⏪ (Seek Previous/Reverse):

1. Press to seek to the beginning of the current or previous chapter. If the chapter has played for fewer than five seconds, it goes to the previous chapter. If the chapter has played longer than five seconds, the current chapter

is restarted. More than one press continues moving back through the disc.

2. Press and hold to fast reverse through a disc. When fast reverse is active, press again to change the speed. Elapsed time displays.
3. Press ▷/|| to resume playing.

Multifunction Knob: Turn to the right or left to go to the next or previous chapter.

Stop:

1. Press to stop the DVD.
2. To resume playing the DVD from where it stopped, press ▷/||.

Shuffle:

1. Select to play the tracks randomly rather than in sequence.
2. Select again to play sequentially. This button is available for DVD audio discs.

Top Menu: Select to display the first menu of the DVD. Availability of this feature is dependent on the DVD.

Menu: Select to display the menu for the part of the DVD that is currently playing. Availability of this feature is dependent on the DVD and is not available for audio DVDs.

Keypad:

1. Select to display and search through the chapter, track, or menu number screen.
2. On the keypad, enter the title/ chapter number or the group/ track number.

Search: Select to perform a title search.

Angle:

1. Select to adjust the viewing angle of the DVD, depending on the DVD, while the DVD is playing.
2. Continue pressing to cycle through the viewing angles.

Audio:

1. Select to change the audio stream and the audio language heard, while the DVD is playing.
2. Continue pressing to cycle through the available audio streams or languages, depending on the DVD.

Subtitle:

1. Select while a DVD is playing to view with subtitles on or off or to change the language of the subtitles.
2. Continue pressing to cycle through the available subtitle languages and to turn subtitles off, depending on the DVD playing.

Pan Scan: Pan Scan is a method of adjusting widescreen film images so that they can be proportioned to fit the DVD screen display. Select to turn on Pan Scan.

Error Messages

If Disc Read Error displays and/or the disc comes out, it could be for one of the following reasons:

- The disc has an invalid or unknown format.
- The disc is not from a correct region.
- The disc is very hot. Try the disc again when the temperature returns to normal.
- The road is very rough. Try the disc again when the road is smoother.
- The disc is dirty, scratched, wet, or upside down.
- The air is very humid. Try the disc again later.
- There was a problem while burning the disc.
- The label is caught in the CD/ DVD player.

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If the CD or DVD is not playing correctly for any other reason, try a known good CD or DVD.

If any error continues, contact your dealer.

MP3

Playing an MP3 CD and DVD

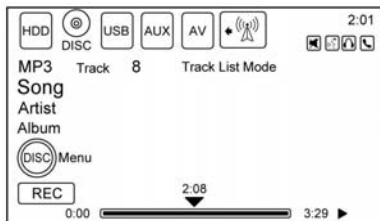
MP3 Format

The following guidelines must be met when creating an MP3 disc, otherwise the CD might not play.

- Sampling rate: 8 kHz, 16 kHz, 22.05 kHz, 24 kHz, 32 kHz, 44.1 kHz, and 48 kHz.
- Bit rates supported: 8, 16, 24, 32, 40, 48, 56, 64, 80, 96, 112, 128, 144, 160, 192, 224, 256, and 320 kbps.
- Maximum number of folders is 255 with a maximum hierarchy of eight folders.
- Each folder or album should contain 18 songs or fewer.

- Maximum of 1,024 files on a disc.
- Recorded on a CD-R or CD-RW with a maximum capacity of 700 MB.

When an MP3 is loaded in the player, MP3 displays.



If a disc is already loaded, but you are currently on a map screen or listening to a different audio source, press SRCE to switch to the Disc source. A track number appears on the display when each track starts to play.

To play a disc:

▶/|| (Play/Pause): Use to start, pause, or resume play of a loaded disc.

▶▶ (Seek Next/Forward):

1. Press to seek to the next track.
2. Press again to continue moving forward through the disc.
3. Press and hold to advance quickly through playback. Release this button to return to playing speed. Elapsed time displays.

◀◀ (Seek Previous/Reverse):

1. Press to seek to the beginning of the current or previous track. If the track has played for fewer than five seconds, it goes to the previous track. If longer than five seconds, the current track restarts.
2. Press again to continue moving back through the disc.

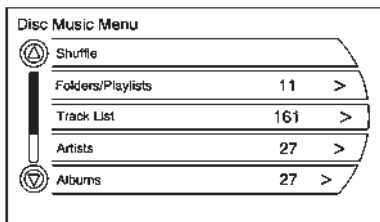
- Press and hold this button to reverse quickly through playback.
- Release this button to return to playing speed. Elapsed time displays.

Multifunction Knob: Turn to go to the next or previous track.

MENU: Press to display the CD Menu. Select the track list option for the current mode/folder. Select the track from the list. The system plays the selected track and returns to the CD screen.

Disc Menu

Press the DISC Menu screen button or press the Multifunction knob while on the Disc audio screen to display the Disc Music Menu.



Select any of the following category buttons on the Disc Music Menu to display the corresponding category screen:

- **Folders/Playlists**

Select to view the folders stored on the disc. Select a folder to view the list of all the songs in that folder. There might be a delay before the list displays. Select the song from the list and it begins to play.

- **Track List (All Songs)**

Select to view a list of all songs on the disc. There might be a delay before the list displays. Select a song from the list and it begins to play. Songs are

displayed based on the CD burning application folder and file structure used.

- **Artists**

Select to view the list of artists that have been stored on the disc. Select an artist name to view a list of all songs by the artist. There might be a delay before the list displays. Select the desired song from the list and it begins to play.

- **Albums**

Select to view the albums on the disc. Select the album to view a list of all songs on the album. There might be a delay before the list displays. Select a song from the list and it begins to play.

- **Genres**

Select to view the genres on the disc. Select a genre to view a list of all songs of that genre. There might be a delay before the list displays. Select a song from the list and it begins to play.

- **Song Titles**

Select to display a list of all songs on the disc. There might be a delay before the list displays. Select a song from the list and it begins to play. Songs are displayed in alphabetical order based on the Song Title ID3 tag, if available.

Root Directory

The root directory is treated as a folder. All files contained directly under the root directory are accessed prior to any root directory folders.

Empty Directory or Folder

If a root directory or folder is empty or contains only folders, the player advances to the next folder in the file structure that contains a compressed audio file. The empty folder(s) are not displayed or numbered.

No Folder

When the CD only contains compressed audio files without any folders or playlists, all files are located under the root folder.

File System and Naming

The displayed song title is taken from the file's ID3 tag. If a song title is not present in the ID3 tag, the radio displays the file name as the track name.

Preprogrammed Playlists

The radio recognizes preprogrammed playlists created by WinAmp® or MusicMatch®, however, there is no editing capability. These playlists are treated as special folders containing compressed audio song files.

Hard Drive Device (HDD)

With an HDD, songs can be recorded.

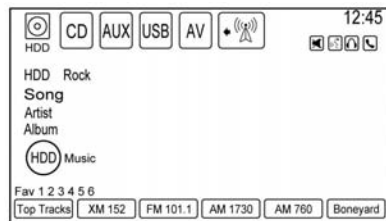
The types of formats supported by the HDD are:

- MP3
- MP3-Pro (with spectral brand replication)
- WMA
- Audible.com
- M4A

Songs can be recorded from a CD player or a mass media storage device connected by a USB connector.

For optimal recording performance make sure the disc is clean with no damage, otherwise the system might partially record the track.

To select the hard drive audio source:



Press SRCE, cycle through the available audio sources until HDD displays, then press the HDD source button. You can also touch the audio page to toggle to HDD, then press the HDD source button.

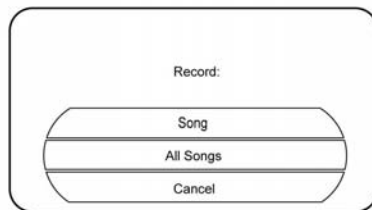
Recording from a CD to the Hard Drive

The speed of the recording increases if you are listening to another source while recording.

To record all tracks from the disc:

1. Load a CD.

2. Press SRCE until the CD screen displays. Press the CD Menu to select All Songs.
3. A confirmation displays. Press the REC (record) screen button.



4. Press All Songs to record all tracks. A progress bar displays.

To record selected tracks from the disc:

1. Load a CD until the CD screen displays.
2. Press \gg or \ll , or press CD Menu to select a song for recording.
3. Press REC.

4. A confirmation displays.
5. Select the song name to record. A progress bar displays.

Recording from a USB Device to the Hard Drive

To copy all tracks from the USB device:

1. Connect a USB device or press SRCE until the disc screen displays the USB screen.

2. Press REC.
3. A confirmation displays.
4. Select All Songs to copy all tracks. A progress bar displays.

To record selected tracks:

1. Connect a USB device.
2. Press SRCE until the disc screen displays the USB screen.
3. Press \gg or \ll , or press the USB Menu to select a song for recording.
4. Press REC.

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5. A confirmation displays.
6. Select the song name to record.
A progress bar displays.

Duplicate Content

When the record function is started, there is a check to verify that it does not already exist on the hard drive. If the entire content of the CD exists on the hard drive, it will not record the content.

If it is determined that some or none of the content exists, then only that content will be copied to the hard drive.

If the same file is recorded from USB and CD, it is possible to have duplicate tracks.

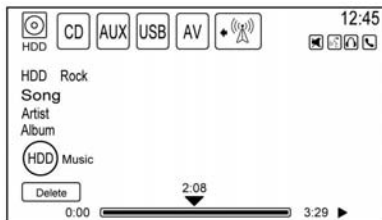
CD Eject

If the CD ejects before the recording process completes, only tracks that have been completely recorded are stored to the hard drive; incomplete tracks are discarded.

Power Mode

If the system is turned off during a CD or USB recording process, it stops. When the radio is turned back on, the recording process does not resume automatically.

Playing Hard Disc Drive Content



To operate hard drive functions while the HDD source is active, use the following buttons or touch-sensitive buttons:

▷/|| (Play/Pause): Press to start, pause, or resume play of the current media source.

⏮ (Seek Next/Forward):

1. Press to seek to the next track.
2. Press and hold to advance quickly through playback.
3. Release this button to return to playing speed. Elapsed time displays.

⏪ (Seek Previous/Reverse):

1. Press to seek to the beginning of the current or previous track. If the track has been playing for fewer than five seconds, the previous track plays. If longer than five seconds, the current track restarts.
2. Press and hold this button to reverse quickly through playback. Release this button to return to playing speed. Elapsed time appears on the display.

Multifunction Knob: Turn to the right or left to go to the next or previous track.

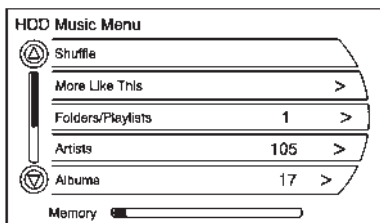
MENU: Press to display the track list. For example, if in artist mode it only displays the track by the selected artist. Select the desired track from the list. The system plays the selected track and returns to the HDD screen.

DEL (Delete): Select to delete a song from the hard drive. Select the song from the HDD Menu screen to delete.

To delete an entire list of Artists, Albums, or Genres, select the category from the HDD Menu screen.

HDD Menu

From the HDD screen, press the HDD Menu screen button on the HDD screen to display the HDD Music Menu.



Select any of the following buttons on the HDD Menu:

Shuffle: Press to play the tracks randomly rather than in sequence.

More Like This: Press to use Gracenote® music recognition technology and related data to generate a list of songs similar to the current song. Select a song from the list.

This feature is only available with songs recorded to the HDD from Audio CDs, not MP3s and other compressed audio.

When recording CDs to the HDD there might be delays to build the list until all the files are compressed.

Folders/Playlists:

1. Press to view the folders/playlists on the hard drive.
2. Select a folder/playlist to view a list of all songs in the folder/playlist.
3. Select a song from the list. Once selected, Folders/Playlists Mode displays.

Artists:

1. Press to view the artists on the hard drive.
2. Select an artist to view a list of all songs by that artist.
3. Select a song from the list. Once selected, Artist Mode displays.

Albums:

1. Press to view the albums on the hard drive.
2. Select an album to view a list of all songs on the album.
3. Select a song from the list. Once selected, Album Mode displays.

All Songs:

1. Press to view a list of all songs on the hard drive.
2. Select a song from the list. Once selected, All Songs Mode displays.

Genres:

1. Press to view the genres on the hard drive.
2. Select a genre to view a list of all songs of that genre.
3. Select a song from the list. Once selected, Genre Mode displays.

Recently Saved: Press to view a list of the 50 most recently saved songs to the HDD. Once selected, Recently Saved Mode displays.

Saving HDD Favorites

During HDD playback, to save the current song playing to a category preset:

1. Press FAV until the FAV playlist category displays.

2. Press and hold a preset button on the bottom of the screen until the Saved to Favorites message displays.

To save an entire Artist, Album, or Genre to a FAV category preset:

1. Press FAV until the correct FAV category appears.
2. Press and hold a preset button on the bottom of the screen.

Playing HDD Favorites

Favorites can be played two different ways:

- Press FAV until the appropriate FAV HDD category displays. Press a preset button at the bottom of the HDD screen.
- Select FAV from the HDD Menu. Favorite Artist, Album, and Genre are in the corresponding list.

USB Host Support

The USB connector uses the USB 2.0.

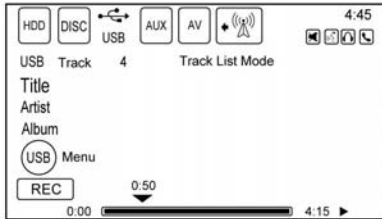
USB Supported Devices

- USB flash sticks or pen drives.
- Portable USB Hard Drives. Pay close attention to the power source of these devices (USB bus powered vs. external power).
- Portable media adapters that support SD Flash, Compact Flash, or SD Micro.

Depending on the USB mass storage device, some devices might not be recognized.

Music can be played directly from the USB device and controlled through MP3 control functions and menu.

Playing from USB



A USB Mass Storage device can be connected to the USB port to copy compressed audio files onto the hard drive. Content can also be played directly from the USB device.

The USB mass storage limit is 20 Gb. For the infotainment system to read the data for songs beyond that limit would depend on the manufacturer and data format.

The USB port is in the center console.

The USB icon displays when the USB device connected.

To play a USB device:

- Connect the USB and it begins to play.
- Press SRCE, then press the USB screen button.

While the USB source is active, use the following to operate USB function:

⏮/|| (Play/Pause): Press to start, pause, or resume play of the current media source.

⏭ (Seek Next/Forward):

1. Press to seek to the next track.
2. Press and hold to advance quickly through playback.
3. Release the button to return to playing speed. Elapsed time displays.

⏮ (Seek Previous/Reverse):

1. Press to seek to the beginning of the current or previous track. If the track has been playing for fewer than five seconds, the

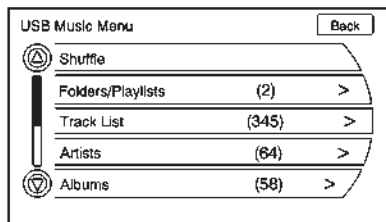
previous track plays. If playing longer than five seconds, the current track restarts.

2. Press and hold to reverse quickly through playback.
3. Release the button to return to playing speed. Elapsed time displays.

Multifunction Knob: Turn to the right or left to go to the next or previous track.

MENU: Turn this knob to display the track list. For example, if in artist mode it only displays the track by the selected artist. Select the desired track from the list. The system plays the selected track and returns to the USB screen.

USB Menu



Press the USB Menu screen button or press the Multifunction knob while on the USB audio screen to display the USB Music Menu.

Select any of the following buttons on the USB Menu:

Shuffle:

1. Press to play the tracks randomly rather than in sequence.
2. Select again to stop this function.

Folders/Playlists:

1. Press to view the playlists stored on the USB.

2. Select a folder/playlist to view a list of all songs in the folder/playlist.
3. Select a song from the list. Once selected, Folder/Playlist Mode displays.

Track List:

1. Press to view the list of tracks stored on the USB.
2. Select a track from the list.

Artists:

1. Press to view the artists stored on the USB.
2. Select an artist to view a list of all songs by the artist.
3. Select a song from the list. Once selected, Artist Mode displays.

Albums:

1. Press to view the albums stored on the USB.
2. Select an album to view a list of all songs on the album.

3. Select a song from the list. Once selected, Album Mode displays.

All Songs:

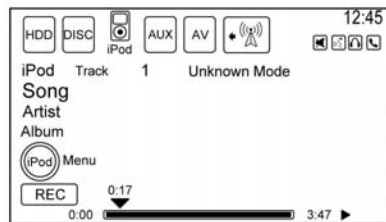
1. Press to view a list of all songs stored on the USB.
2. Select a song from the list. Once selected, All Songs Mode displays.

Genres:

1. Press to view the genres stored on the USB.
2. Select a genre to view a list of all songs of that genre.
3. Select a song from the list. Once selected, Genre Mode displays.

Eject USB: Press when the USB is to be removed. If the USB is disconnected without selecting Eject USB, the files could become corrupted.

Playing from an iPod®



This feature supports the following iPod models:

- iPod touch® (4th generation)
- iPod touch (3rd generation)
- iPod touch (2nd generation)
- iPod touch (1st generation)
- iPod classic®
- iPod with video
- iPod nano® (6th generation)
- iPod nano (5th generation)
- iPod nano (4th generation)
- iPod nano (3rd generation)
- iPod nano (2nd generation)

- iPod nano (1st generation)
- iPhone 4®
- iPhone 3GS
- iPhone 3G
- iPhone

For proper operation, make sure the iPod has the latest firmware from Apple®. iPod firmware can be updated using the latest iTunes® application.

For more information, see www.apple.com/itunes.

Recording from the iPod to the HDD is not supported. Media must be recorded using a USB mass storage device.

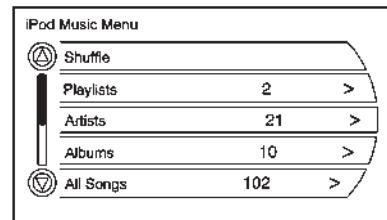
To connect and control an iPod, connect one end of the standard iPod USB cable to the iPod's dock connector. Connect the other end to the USB port in the center console.

iPod music information shows on the radio's display and begins playing through the vehicle's audio system.

The iPod battery recharges automatically while the ignition is on or in the accessory position. When the ignition is turned off while an iPod is connected using the iPod USB cable, the iPod battery stops charging and the iPod automatically turns off.

If the iPod is a model that is not supported, it can still be listened to in the vehicle by connecting it to the auxiliary input jack using a standard 3.5 mm (1/8 in) stereo cable. See *Auxiliary Devices on page 34*.

iPod Menu



Select any of the following buttons on the iPod Music Menu to display the corresponding screen:

Shuffle:

1. Press this button to play the tracks randomly rather than in sequence.
2. Select the button again to stop this function.

Playlists:

1. Press this button to view the playlists stored on the iPod.
2. Select a playlist name to view a list of all songs in the playlist.
3. Select the desired song from the list. Once a song has been selected "Playlist Mode" appears on the iPod main screen to show that music is playing from a playlist.

Artists:

1. Press this button to view the artists stored on the iPod.

2. Select an artist name to view a list of all songs by the artist.
3. Select the desired song from the list. Once a song has been selected "Artist Mode" appears on the iPod main screen to show that music is being played from a specific artist.

Albums:

1. Press this button to view the albums stored on the iPod.
2. Select an album name to view a list of all songs on the album.
3. Select the desired song from the list. Once a song has been selected "Album Mode" appears on the iPod main screen to show that music is being played from a specific album.

All Songs:

1. Press this button to view a list of all songs stored on the iPod.
2. Select the desired song from the list. Once a song has been selected, "All Songs Mode"

appears on the iPod main screen to show that music is being played from the All Songs category.

Genres:

1. Press this button to view the genres stored on the iPod.
2. Select a genre name to view a list of all songs of that genre.
3. Select the desired song from the list. Once a song has been selected "Genre Mode" appears on the iPod main screen to show that music is being played from a specific genre.

Composers:

1. Press this button to view the composers stored on the iPod.
2. Select a composer name to view a list of all songs by that composer.
3. Select the desired song from the list. Once a song has been selected "Composer Mode" appears on the iPod main

screen to show that music is being played from a specific composer.

Audio Books:

1. Press this button to view the audio books stored on the iPod.
2. Select an audio book name to view a list of all books of that genre.
3. Select the desired book from the list. Once a book has been selected, "Audio Book Mode" appears on the iPod main screen.

Podcasts appear with the general music. They do not have their own category. Like the other music files, they are searchable by title, artist, and album.

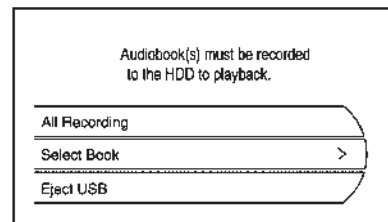
Eject iPod: Press this button to remove the iPod. If the iPod is disconnected without selecting this button, the files on the iPod could be corrupted.

Audio Book

The system can play back audio book content downloaded from www.audible.com by either burning it to a CD or recording it to a USB storage device.

Audible.com is a provider of spoken word audio entertainment, information, and educational programming. The use of the [audible.com](http://www.audible.com) playback feature requires that the [audible.com](http://www.audible.com) account be activated with the radio. For more information on creating an account or how to activate the radio with your existing account, see www.audible.com/caraudio. The activation process requires the Vehicle Identification Number (VIN) of the vehicle.

Once activated, files can be transferred by burning them to a CD or by using a USB storage device.



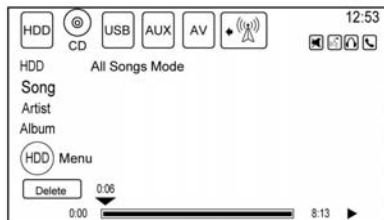
Press the All Recording screen button to record all available audio books. Press the Select Book screen button to record a specific audio book..

After the files have been recorded, eject the CD/USB external media.

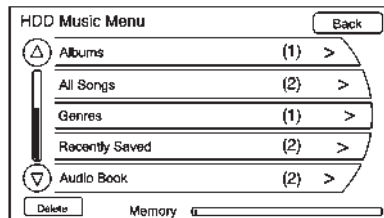
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Playing Audio Book Content

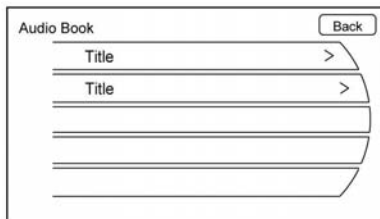
After activating and transferring audible.com files to the system, play the files by:



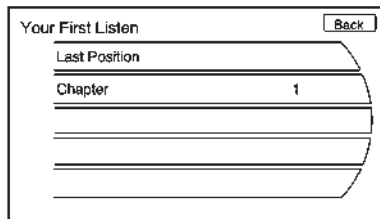
1. Press SRCE until the HDD source is selected.



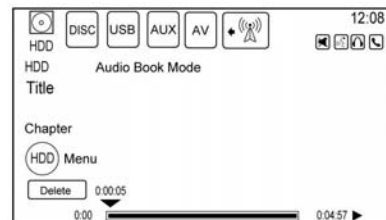
2. Enter the HDD Menu; the HDD Music Menu displays. Scroll down to the Audio Book option and select.



3. The Audio Book screen displays a list of the available audio books for playback. Select a book.



4. Select a chapter to start playback.

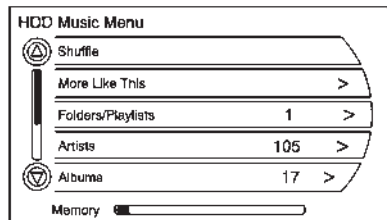


5. The audio book begins playback.

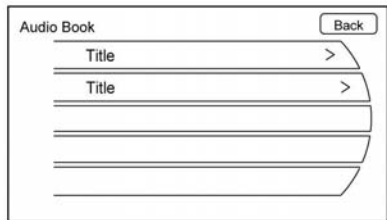
Selecting Another Audio Book

To play a different audio book from the one selected, return to the Audio Book menu options.

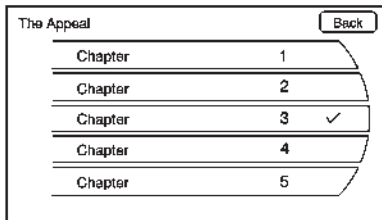
To change the audio book currently playing:



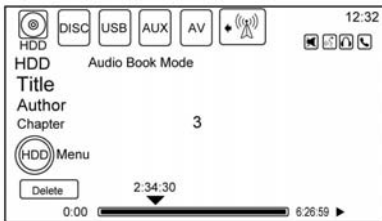
1. Press MENU or press the HDD Menu screen button to enter that screen menu. The HDD Music Menu displays. Scroll down to the Audio Book option.



2. The Audio Book screen displays a list of the available audio books for playback. Select a book.



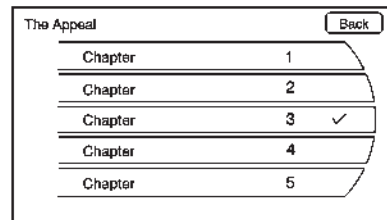
3. Select a chapter to start playback.



4. The audio book begins playback.

Changing Chapters within an Audio Book

To change chapters within an audio book:



While the audio book is playing, press MENU. The chapter list of the current book displays. Select a chapter from the list. To return to the current chapter being played, select the chapter with the checkmark located at the right.

Auxiliary Devices

The vehicle has an auxiliary input jack on the navigation system's faceplate. Possible auxiliary audio sources include:

- Laptop computer
- MP3 player

This jack is not an audio output. Do not plug headphones into the auxiliary input jack. Set up any auxiliary device while the vehicle is in P (Park).

Connect a 3.5 mm (1/8 in) cable from the auxiliary device to the auxiliary input jack. When a device is connected, the system automatically begins playing audio from the device over the vehicle speakers.

If an auxiliary device has already been connected, but a different source is currently active, press SRCE repeatedly to cycle through all of the available audio source screens, or press the toggle page button until the AUX source screen is selected.

Rear Seat Infotainment

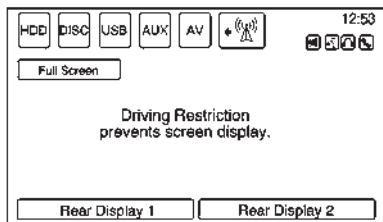
Rear Seat Entertainment (RSE) System

The vehicle might have rear seat displays, for viewing movies and videos in the rear seat. This feature can be controlled through the navigation radio screen.

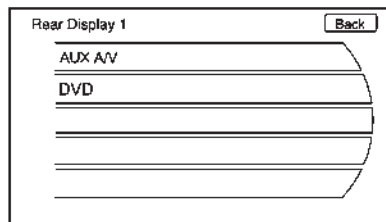
A DVD can play in the navigation radio, or from an auxiliary video source.

To use the rear seat displays:

1. Insert a DVD into the navigation radio or an attached auxiliary video source.
2. Press SRCE repeatedly until the AV source screen displays, or press the toggle page button.



3. Press Rear Display 1 for the second row video screen and Rear Display 2 for the third row video screen (if equipped).



4. Select the video source to be used (AUX A/V or DVD).

If the front seat source is USB or HDD, the rear seat audio (RSA) is not available for USB or HDD.

Headphones



1. Battery Cover
2. Channel 1 or 2 Switch
3. Power Button
4. Volume Control
5. Power Indicator Light

RSE includes two 2-channel wireless headphones. Channel 1 is dedicated to the DVD player, and Channel 2 is dedicated to any external auxiliary device connected to the A/V jacks. The headphones are used to listen to various

multi-media. The wireless headphones have a power button, channel 1/2 switch, and volume control. Turn the headphones off when not in use.

Press the power button to turn on the headphones. A light on the headphones comes on. If the light does not come on, check the batteries. Intermittent sound or static can also indicate weak batteries. See "Battery Replacement" later in this section.

Infrared transmitters are near the video screen. The headphones shut off automatically to save the battery power if the RSE system is shut off or if the headphones are out of range of the transmitters for more than three minutes. Moving too far forward or stepping out of the vehicle can cause the headphones to lose the signal or have static.

To adjust the volume on the headphones, use the volume control.

For optimal audio performance, the headphones must be worn correctly. Headphones should be worn with the headband over the top of the head for best audio reception. The symbol L (Left) appears on the outside bottom edge of the ear cup and should be positioned on the left ear. The symbol R (Right) appears on the outside bottom edge of the ear cup and should be positioned on the right ear.

Caution

Do not store the headphones in heat or direct sunlight. This could damage the headphones and repairs will not be covered by the warranty. Storage in extreme cold can weaken the batteries. Keep the headphones stored in a cool, dry place.

If the foam ear pads attached to the headphones become worn or damaged, the pads can be replaced separately from the headphone set.

To purchase replacement ear pads, call 1-888-293-3332, then prompt zero (0), or contact your dealer.

Battery Replacement

To change the batteries:

1. Loosen the screw to the battery door on the left side of the headphones.
2. Slide the battery door open.
3. Replace the two AAA batteries.
4. Replace the battery door and tighten the screw.

Remove the batteries if the headphones are not going to be used for a long period of time.

Audio/Video (A/V) Jacks

If available, the A/V jacks are on the rear of the floor console. They allow audio or video cables to be connected from an auxiliary device such as a camcorder or a video game system.

The A/V jacks are color coded:

- Yellow: Video Input.
- White: Left Audio Input.
- Red: Right Audio Input.

Power for auxiliary devices is not supplied by the infotainment system.

To use the auxiliary inputs of the RSE system:

1. Connect the auxiliary device cables to the A/V jacks.
2. Power on both the auxiliary device and the RSE video screen.

Changing the Source on the Video Display Screens

The image from the auxiliary device can be switched between the video display screens.

To change the display:


1. Press the AUX button on the remote control to change the source of both video screens from the DVD player to the auxiliary device.

- Press the AUX button a second time to change the first row video screen source to the DVD player and the second row video screen to the auxiliary device.
- Press the AUX button a third time to change the first row video screen source to the auxiliary device and the second row video screen to the DVD player.
- Press the AUX button a fourth time to change the source of both video screens to the DVD player.

How to Change the RSE Video Screen Settings

The screen display mode, brightness, and language can be changed from the setup menu using the remote control. To change a setting:

- Press .
- Use , , ,  and  to select the settings.

- Press  again to exit the setup menu.

Audio Output

Audio from the DVD player or auxiliary inputs can be heard through the following:

- Wireless Headphones
- Vehicle Speakers

The RSE system transmits the audio signal to the wireless headphones if an audio signal is available. See “Headphones” earlier in this section.

The front seat passengers are able to listen to playback from the A/V jacks through the vehicle speakers by selecting Rear A/V as the source on the radio.

Video Screens

The video screens are in the center roof of the first and second rows of the vehicle.

Caution

Avoid directly touching the video screen, as damage may occur.

Remote Control



To use the remote control, aim it at the transmitter window at either seatback console and press the button. Direct sunlight or very bright light could affect the ability of the RSE transmitter to receive signals from the remote control. Check the batteries if the remote control does


not seem to be working. See “Battery Replacement” later in this section. Objects blocking the line of sight could also affect the function of the remote control.


Use the infotainment system to turn the video screen display on.


Caution


Storing the remote control in a hot area or in direct sunlight can damage it, and the repairs will not be covered by the warranty. Storage in extreme cold can weaken the batteries. Keep the remote control stored in a cool, dry place.


Remote Control Buttons


 **(Power):** Press to turn the video screens on and off.


 **(Illumination):** Press to turn the remote control backlight on. The backlight times out after several seconds if no other button is pressed.


 **(Title):** Press to return to the main menu of the DVD. This function could vary for each disc.


 **(Main Menu):** Press to access the DVD menu. The DVD menu is different on every DVD. Use the navigation arrows to move the cursor. After making a selection press the enter button. This button only operates when using a DVD.


 **(Menu Navigation Arrows):** Use the arrow buttons to navigate through a menu.






 **(Enter):** Press to select the highlighted choice in any menu.


 **(Display Menu):** Press to adjust the brightness, screen display mode, and display the language menu.

 **(Return):** Press to exit the current active menu and return to the previous menu. This button operates only when the display menu or a DVD menu is active.

 **(Stop):** Press to stop playing, rewinding, or fast forwarding a DVD. Press twice to return to the beginning of the DVD.

 **(Play/Pause):** Press to start playing a DVD. Press to pause a DVD while it is playing. Press again to continue playing.

Depending on the infotainment system in the vehicle, DVD playback may be slowed down by pressing  then . Reverse slow play by pressing  then . Press  again to cancel slow play.

 **(Previous Track/Chapter):** Press to go to the start of the current track or chapter. Press again to go to the previous track or chapter. This button may not work

when the DVD is playing the copyright information or the previews.

▶ (Next Track/Chapter): Press to go to the beginning of the next chapter or track. This button might not work when the DVD is playing the copyright information or the previews.

◀◀ (Fast Reverse): Press to quickly reverse the DVD or CD. To stop fast reversing a DVD video, press ▶ ||. To stop fast reversing a DVD audio or CD, release ◀◀. This button might not work when the DVD is playing the copyright information or the previews.

▶▶ (Fast Forward): Press to fast forward the DVD or CD. To stop fast forwarding a DVD video, press ▶ ||. To stop fast forwarding a DVD audio or CD, release ▶▶. This button might not work when the DVD is playing the copyright information or the previews.

🎵 (Audio): Press to change audio tracks on DVDs that have this feature when the DVD is playing.

🗨️ (Subtitles): Press to turn ON/OFF subtitles and to move through subtitle options when a DVD is playing.

AUX (Auxiliary): Press to switch the video display between the DVD player and an auxiliary source.

📷 (Camera): Press to change the camera angle on DVDs that have this feature when the DVD is playing.

⊗ (Clear) (If Available): Press this button within three seconds after inputting a numeric selection to clear all numeric inputs.

≧ 10 (Double Digit Entries) (If Available): Press this button to select chapter or track numbers greater than 9. Press this button before inputting the number.

1 through 0 (Numeric Keypad): The numbered keypad provides the capability of direct chapter or track number selection.

Replacing the Remote Control

If the remote control becomes lost or damaged, a new universal remote control can be purchased. Use a Toshiba® code set for replacement universal remote controls.

Battery Replacement

To change the remote control batteries:

1. Slide back the rear cover on the remote control.
2. Replace the two batteries in the compartment.
3. Replace the battery cover.

Remove the batteries from the remote control if unused for an extended period of time.

Rear Seat Audio (RSA) System

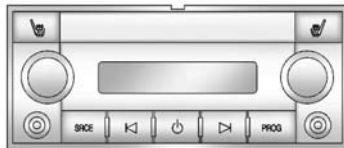
Vehicles with this feature allow the rear seat passengers to listen to and control any of the music sources: radio, CDs, DVDs, or other auxiliary sources. The rear seat passengers can control the same music sources the front seat passengers are listening to (dual control is available, depending the radio) or a different source. For example, rear seat passengers can control and listen to a CD through the headphones, while the driver listens to the radio through the speakers. The rear seat passengers have control of the volume for each set of headphones.

The radio functionality is controlled by both the RSA and the front radio. Only one band can be tuned to at one time. Changing the band on the RSA or the front radio will change the band on the other system, if they are both sourced to the radio.

The RSA can be used even when the main radio is off. The front audio system will display the headphone icon when the RSA is on, and will disappear from the display when it is off.

Audio can be heard through wired headphones (not included) plugged into the jacks on the RSA. If the vehicle has this feature, audio can also be heard on Channel 2 of the wireless headphones.

To listen to an iPod or portable audio device through the RSA, attach the iPod or portable audio device to the front auxiliary input (if available), on the front audio system. Turn the iPod on, then choose the front auxiliary input with the RSA SRCE button.



⏻ (Power): Press this button to turn the RSA on or off.

Volume: To increase or decrease headphone volume, turn the knobs next to the SRCE or PROG buttons. The left knob controls the left headphones and the right knob controls the right headphones.

SRCE (Source): Press this button to switch between the radio, CD, and if the vehicle has these features, DVD, front auxiliary, and rear auxiliary.

⏮ or ⏭ (Seek): When listening to FM or AM, press either seek arrow to go to the previous or to the next station or channels and stay there. This function is inactive, with some radios, if the front seat passengers are listening to the radio.

Press and hold either seek arrow until the display flashes to tune to an individual station. The display stops flashing after the buttons have not been pushed for more than two seconds. This function is

inactive, with some radios, if the front seat passengers are listening to the radio.

While listening to a disc, press the left seek arrow to go back to the start of the current track or chapter if more than 10 seconds have played. Press the right seek arrow to go to the next track or chapter on the disc. This function is inactive, with some radios, if the front seat passengers are listening to the disc.

When a DVD video menu is being displayed, press either seek arrow to perform a cursor up or down on the menu. Hold either seek arrow to perform a cursor left or right on the menu.

PROG (Program): Press this button to go to the next preset radio station or channel set on the main radio. This function is inactive, with some radios, if the front seat passengers are listening to the radio.

When a CD or DVD audio disc is playing, press this button to go to the beginning of the CD or DVD audio. This function is inactive, with some radios, if the front seat passengers are listening to the disc.

When a disc is playing in the CD or DVD changer, press this button to select the next disc, if multiple discs are loaded. This function is inactive, with some radios, if the front seat passengers are listening to the disc.

When a DVD video menu is being displayed, press the PROG button to perform the menu function, enter.

Navigation

Using the Navigation System

Use the buttons on the navigation system and the available touch-screen buttons on the navigation screen to operate the system. See *Overview on page 3*.

Various functions are disabled when the vehicle is moving.

Navigation Control Buttons

The control buttons are on the faceplate of the navigation system:

(Power/Volume):

1. Press to turn the system on and off.
2. Turn to adjust the volume for the audio, OnStar[®] (if equipped), voice guidance, and voice recognition voice prompts.

Multifunction Knob: Turn to zoom in or out while viewing a map screen.

NAV (Navigation): Press to display the navigation menus.

DEST (Destination): Press to plan a route through the Select Destination menu. If route guidance is active, press to access the Route Menu. See *Destination on page 50*.

Multifunction Knob: Turn to highlight a feature. Press the highlighted feature to activate.

RPT (Navigation Repeat): Press to repeat the last voice guidance prompt.

Touch Screen Buttons

Touch screen buttons are on the screen and are highlighted when a feature is available. Some toggle screen buttons highlight when active and gray out when inactive.

Back: Press this screen button to return to the previous screen in a menu. The Back button does not work in primary display screens, such as sound settings, configure settings, info screens, map screen, or audio screen.

Alpha-Numeric Keyboard

Letters of the alphabet, symbols, punctuation, and numbers, when available, display on the navigation screen as alpha or numeric keyboard. The alpha keyboard displays when data needs to be entered.

All characters are touch screen buttons. Press to select.

À-ÿ (Accent Alphabet): To select letters with accent symbols.

A-Z (Alphabet): To select letters from the alphabet.

Symbols: To select symbols.

␣ (Space): To enter a space between characters or the words of a name.

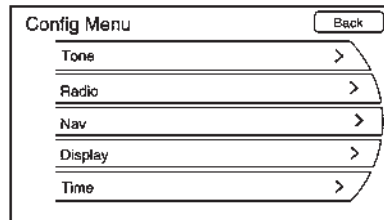
⬅ (Backspace): The backspace screen button is used to delete an incorrect character that has been selected.

To make name selection easier, the system highlights only characters that are available after the previously entered one.

If a name does not display after entry, try entering it differently. The map database may not contain all information.

Navigation Settings

The navigation menu screen accesses the navigation system settings.



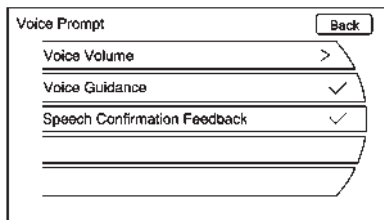
To access:

1. Press the Multifunction knob to display the Config Menu.

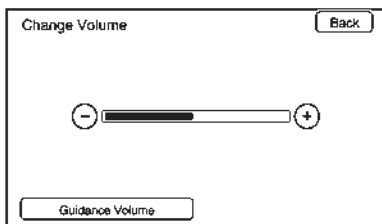
- Turn the Multifunction knob, then press it to select the Nav feature.
- Press Nav to display more options, then press the desired option.

The touch-sensitive buttons available are:

Voice Prompt



This menu allows changes to the voice features.



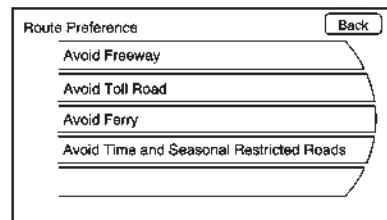
Voice Volume: Adjust the voice volume for guidance and voice recognition prompts by pressing – or + or by turning the Multifunction knob. Press the Guidance Volume screen button to preview the selected sound level.

Voice Guidance: Enable or disable voice guidance. A checkmark indicates on.

Speech Confirmation Feedback: Turn the speech confirmation feedback on or off. A checkmark indicates on.

Route Preference

Press Route Preference to change route options when a route is calculated. A checkmark indicates on.



Avoid Freeway: Major roads are avoided.

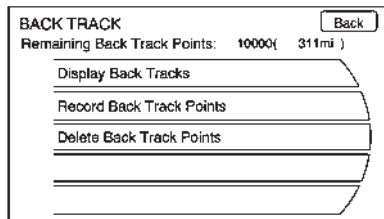
Avoid Toll Road: Toll roads are avoided.

Avoid Ferry: Ferries are avoided.

Avoid Time and Seasonal Restricted Roads: Time restricted and seasonal roads are avoided.

Back Track

Press BACK TRACK to turn on, off, or delete the recording and displaying of the traveled path.



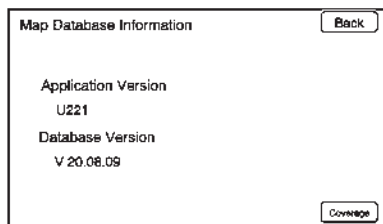
Display Back Tracks: When active, the traveled path displays.

Record Back Track Points: When active, the traveled path is recorded.

Delete Back Track Points: Deletes the recorded path.

Map Database Information

Displays map database version information.



Press the Coverage button to view the major metropolitan coverage area.

Low Fuel Warning

When selected, a pop-up screen displays gas station icons on the map or lists the five nearest gas stations.

Back Track Mode

When selected, the back track feature is on. See "Back Track" earlier in this section.

Weather Warning (If Equipped)

When selected, a pop-up screen displays weather warnings.

Show 3-D Landmark

When selected, 3-D landmarks display on the map screen.

Road Learning (If Equipped)

Press to display options such as Edit Learned Road and Enable Road Learning. With Road Learning enabled, the system automatically learns a road that the vehicle has driven on twice during one or more ignition cycles. The vehicle must start on a known road in the database while driving to a known road, tracing a path using the GPS information to create the learned road. The learned road cannot be longer than 3 km (2 mi).

Select Edit Road Learning to delete one or more learned roads from the stored map database. All learned roads will be deleted when the Map is updated. See *Destination on page 50*.

Maps

This section includes basic information about the map database.

Map Coverage

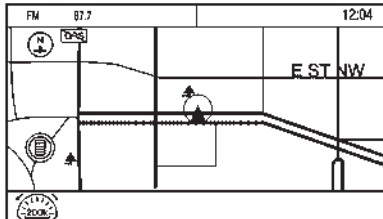
The navigation maps are stored on the hard drive.

For more information on map coverage, see *Database Coverage Explanations on page 73*.

Map Adjustments

The scale of view on the map can be adjusted.

Map Scales



There are two methods to change the map scale:

- Turn the Multifunction knob clockwise or counterclockwise to zoom out or in.
- Press the Map scale button, which is on the bottom left-hand corner of the map screen, to change the zoom level.

The map scale bar times out if the zoom level is not changed within a few seconds.

The scale ranges from 50 m (150 ft) to 400 km (250 mi). To change from English to metric, see “Driver Information Center (DIC)” in the owner manual.

Scroll Features



- To scroll within the map, press anywhere on the map screen and the scroll symbol displays.
- Tap the map to center that location on the screen.
- Hold a finger in any direction outside of the scroll symbol and the map will continue to scroll in that direction until finger is removed.
- Scroll speed increases when touching closer to the edge of the screen.
- Press NAV to exit map scrolling and return to the current vehicle location on the map.
- While scrolling the map, this symbol can display the distance to the crosshair area.



For example, this shows that the map has been scrolled 160 m (0.1 mi) away from the current vehicle position.

Navigation Symbols

Following are the most common symbols that appear on a map screen.

The vehicle symbol indicates the current position and heading direction of the vehicle on the map.



The destination symbol marks the final destination after a route has been planned.

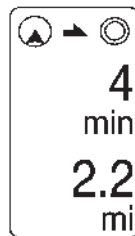


The waypoint symbol marks a set waypoint and is numbered depending on how many have been set.

A waypoint is a stopover destination point added to the planned route.



The estimated time and distance to the destination are displayed.



If waypoints have been added to the current route, each waypoint destination displays estimated time and distance.



This symbol indicates that the map view is North up: North up displays North at the top of the map screen regardless of the direction the

vehicle is traveling. Select this screen symbol to change the view to Heading up or 3-D.



This symbol indicates that the map view is heading up.

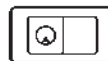
Heading up view displays the direction the vehicle is traveling at the top of the map screen. The shaded triangle indicates North. Select this screen symbol to change the view to North up or 3-D.

Press this screen symbol to change to 3-D mode.

The 3-D symbol is the same as the Heading up symbol, but the map is in 3-D.



The No GPS symbol appears when there is no Global Positioning System (GPS) satellite signal.



These symbols indicate that the information shown on the right side of the map can be hidden to show a full screen map view.



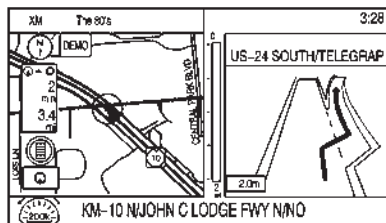
This symbol indicates that a menu is available and displays on the left side of the screen. Press this symbol or the Multifunction knob to access the screen menu.

Driving on a Route

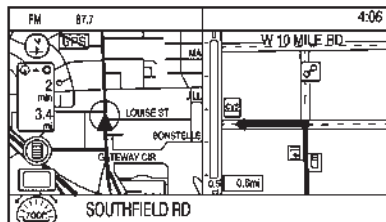
While driving on a route, the next maneuver the map screen displays is either as an Urgent maneuver or a Non-Urgent maneuver.

Urgent Maneuver

An Urgent Maneuver is displayed when the next maneuver is less than or equal to 0.8 km (0.5 mi) away on a residential road or is less than or equal to 1.5 km (1 mi) away on a freeway.



Driving on the Freeway



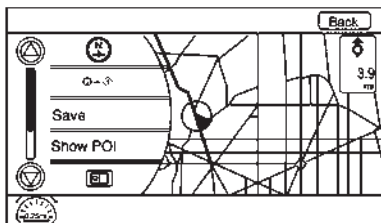
Driving on a Residential Road

Non-Urgent Maneuver

A non-urgent maneuver is when your distance to the next maneuver is greater than 0.8 km (0.5 mi) when driving on a residential road or is greater than 1.5 km (1 mi) when driving on a freeway.

Options Available on the Map Screen

While on route, several options are available while viewing the map screen.

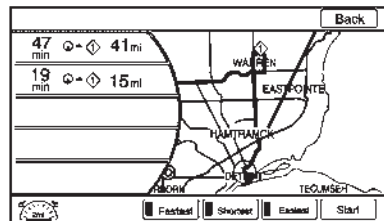


While on the Map screen, press the Multifunction knob to display the menu on the left side.

See *Navigation Symbols on page 46* to learn how to change the map view to North up, Head up, or 3-D view.



When this symbol is selected, the distance and time remaining from the current vehicle position to the first waypoint displays.

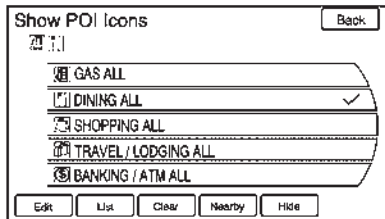


This menu displays if the symbol and waypoints are entered. Select the main map view to display the distance and time remaining from the current vehicle position to any of the set waypoints or final destination.

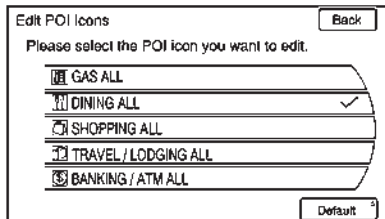
Save: Saves a specific location to the Address Book.

Show POI

Select to view POI information nearby and on route.

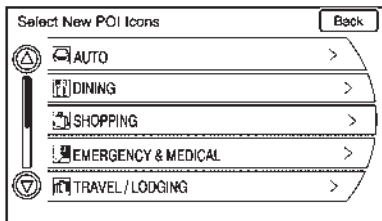


There are several preset options on the bottom of the screen.



Edit: Press to display a list of POI icons.

1. Select the POI icon to edit. The POI icon is replaced by another icon that is selected from the next menu.



2. Select the new POI icon.
3. The new icon is on the Show POI Icons menu.

List: Displays a list of available POIs.

Clear: Clears all selected POIs on the Show POI Icons menu.

Nearby: Displays up to 200 of the selected POIs within 32 km (20 mi) of the current vehicle position. The POIs can be sorted by distance, icon, or type.

Hide: Select to hide the POIs from view on the map. To display, go to the Map menu, select the Show POI Icons menu, and select the Show option.



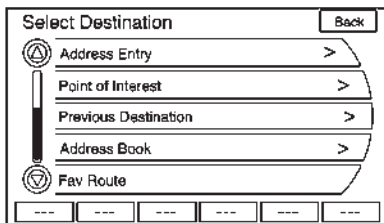
Press this button to change the full map screen to the half map screen and half exit information.

Whole Route: Select to choose options for the entire route.

Cancel Guidance: Cancel guidance of the current route.

Destination

While the destination is not set, press DEST to access the Select Destination screen. Several options can be selected to plan a route by entering destinations.



Address Entry

Set a route by entering the state/province name, city name, street name, and house number.

State/Province: Enter a state/province name.

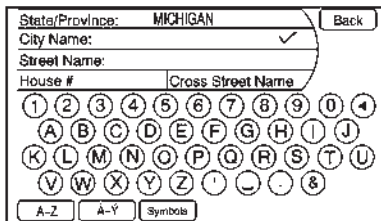
City: Enter a city name.

Street Name: Enter a street name.

House #: Enter a valid address number.



Cross Street Name: Enter a street name that intersects with the selected street.

A checkmark displays on the right side when the field has been selected and the destination can be entered. After an entry step is completed, the checkmark moves to the next item.



Entering the city name first:

1. Press DEST.
2. If necessary, enter the State/Province name. The last State/Province is automatically recalled.
3. Enter the city name. The city field is automatically selected.



4. Enter the street name. This field is automatically selected. Do not enter directional information or street type. Use the space  screen button between street and city names. Use the backspace  screen button to delete an incorrectly entered character.

A list displays if four or fewer names are available. If there are more than four, there is a match counter with a number of available streets. Press the List button to view the list and select the street.

5. Enter the house number. This field is automatically selected.
6. Press OK. The address information screen displays the address entered.
7. Press Go if correct. The route is calculated.

- Select the route preference for Fastest, Shortest, or Easiest. The chosen route preference highlights.
- Press Start Guidance and the route is now ready to be started.

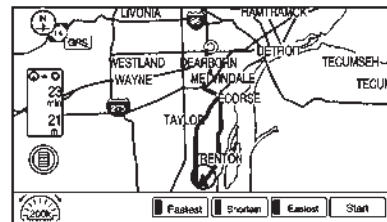
Entering the Street name first:

- Press DEST.
- If necessary, enter the state/province name. The last state/province name is automatically recalled.
- Select the street name field. Enter the street name. Do not enter directional information or street type. Use the space  screen button between street and city names. Use the backspace  screen button to delete an incorrect character. A list displays if four or fewer names are available. If there are more than four, there is a match counter with a number of

available streets. Press the List button to view the list and select the street.

- Select the city from the list or enter the city name.
- Enter the house number. This field is automatically selected.
- Press OK. The address information screen displays the address entered.
- Press Go if correct. The route is calculated.
- Select the route preference for Fastest, Shortest, or Easiest. The chosen route preference highlights.
- Press the Start Guidance screen button and the route is calculated.

Point of Interest (POI)



The POI destination entry allows selection of a destination by providing the POI name or a city name, by selecting from the POI list.

Entering by POI Name/Phone Number

- Press DEST.
- Press the POI screen button.

State/Province: MICHIGAN [Back]

POI Name: ✓

Phone #: _____

1 2 3 4 5 6 7 8 9 0 ◀

A B C D E F G H I J

K L M N O P Q R S T U

V W X Y Z ' _ - . &

A Z A-Y Symbols [Browse]

- Enter the name or select by phone number.
A list displays if four or fewer names are available. If there are more than four, there is a match counter with a number of available POI names. Press the List button to view the list.
- Select the POI name from the list.
- Press Go on the confirmation screen if the information is correct.
- Select the route preference for Fastest, Shortest, or Easiest.

- Press the Start Guidance screen button and the route is now ready to be started.

Entering a POI by City Name

- Press DEST.
- Press the Point of Interest screen button.
- Press the Browse POI Categories screen button.
- Select the change location screen button.
- Enter the new state and city.
- Select a category, then a sub-category.
The available POI names will display.
- Select the POI name.
- If the POI is correct, press Go. The route is calculated.
- Select the route preference for Fastest, Shortest, or Easiest.

- Press the Start Guidance screen button and the route is now ready to be started.

Selecting a POI Category

- Press DEST.
- Press the Point of Interest screen button.
- Press the Browse POI Categories screen button.

POI Category [Back]

Close to N SERVICE DR, SOUTHFIELD, MI

AUTO >

DINING >

SHOPPING >

EMERGENCY & MEDICAL >

TRAVEL / LODGING >

[Change Location]

- Select a category, then a sub-category.
The available POI names display.
- Select the POI name.

- If the POI is correct, select Go. The route is calculated.
- Select the route preference for Fastest, Shortest, or Easiest.
- Press the Start Guidance screen button and the route is now ready to be started.

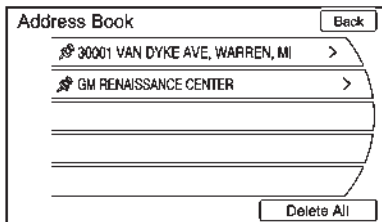
Previous Destination

Select a destination from a list of previous destinations. Up to 15 points that have been previously entered can be recalled. If the list is full, the oldest destinations automatically are deleted once the newest destinations are added.

- Press DEST.
- Press the Previous Destination screen button. A list displays the previous destinations.
- Select the Destination.
- Press Go on the confirmation screen if correct. The route is calculated.

- Select the route preference for Fastest, Shortest, or Easiest.
- Press the Start Guidance screen button and the route is now ready to be started.

Address Book



Choose a destination by selecting an address that has been stored in the address book.

- Press DEST.
- Press the Address Book screen button. A list displays the address book entries.
- Select the destination from the list.

- Press Go on the confirmation screen if correct. The route calculates.
- Select the route preference for Fastest, Shortest, or Easiest.
- Press the Start Guidance screen button and the route is now ready to be started.

Pick From Map

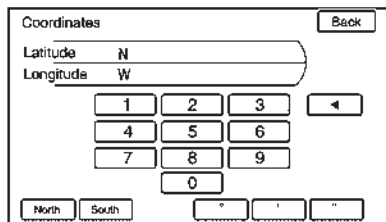
Select a destination by scrolling on the map.

- Press DEST.
- Press the Pick From Map screen button. A map screen with a scroll symbol displays.
- Press the Zoom in/out arrow button on the screen and press the map to locate the destination to select. Press and hold a finger on the map to activate fast scrolling.
- Press Go. The route calculates.
- Select the route preference for Fastest, Shortest, or Easiest.

- Press the Start Guidance screen button and the route is now ready to be started.

Lat/Long Coordinates

Choose a destination based on Latitude and Longitudinal coordinates.



Enter the location as coordinates, Latitude and Longitude.

- Press DEST.
- Press the Lat/Long screen button.
- Enter the coordinates for the destination in degrees, minutes, and seconds.
- Press Go. The route calculates.

- Select the route preference for Fastest, Shortest, or Easiest.
- Press the Start Guidance screen button and the route is now ready to be started.

Preset Destination

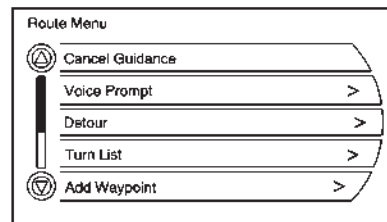
Set a destination by selecting from one of six previously stored destinations. If a destination is not set for one of the screen buttons, the button dims and is not available to use. See “Previous Destinations” later in this section for information on how to add a preset destination.

- Press DEST.
- Press one of the available Preset Destination screen buttons. The screen buttons were stored with the name selected. The route is calculated.
- Select the route preference for Fastest, Shortest, or Easiest.

- Press the Start Guidance screen button and the route is now ready to be started

Getting Started on the Route

Several functions can be performed after a destination has been entered.



Press DEST to access the Route Menu screen.

Cancel Guidance

From the Route screen, press the Cancel Guidance screen button to cancel the current route. Press Yes on the confirmation screen to cancel or No to continue the guidance.

Voice Prompt

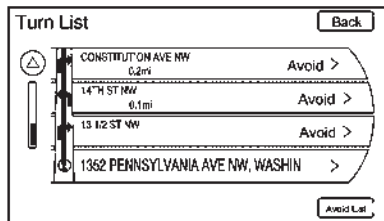
Select Voice Volume to change the volume of voice prompts and voice recognition.

Press the Voice Guidance, Speech Confirmation Feedback, or Traffic Voice Prompt screen buttons to turn voice prompts on or off for each category. See “Navigation Settings” under *Using the Navigation System* on page 41.

Detour

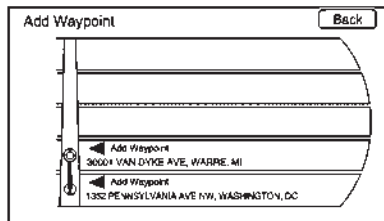
To select a detour around the current route, select the Route screen, then select to detour 2, 5, or 10 km (1, 3, or 6 mi). Press the Whole Route screen button to detour the entire route. This is only available while driving on a route.

Turn List



To view the list of maneuvers for the entire route, select the Turn List screen button from the Route Menu screen.

Waypoints



Up to three waypoints can be added to the current route, between the start point and final destination. The waypoints can be edited or deleted.

To add a waypoint:

1. Press DEST.
2. Press the Add Waypoint screen button. This button is only available if the route has been calculated.
3. Enter the waypoint by any of the add destination methods. The system calculates and highlights the route and the route can be started.
4. To add more waypoints, press DEST. Press the Add screen button to add the waypoint in the order desired on the route. The system calculates and highlights the route and the route can be started.

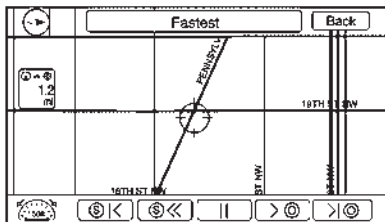
To delete a waypoint:

1. Press DEST.

2. Press the Delete Waypoint screen button.
3. Select the waypoint to be deleted by pressing the screen.
4. A confirmation message displays. Press Yes to delete the waypoint; press No to cancel this operation. The system calculates and highlights the route and the route can be started.

Route Preview

Preview the entire route in either direction.



⏪ ⏩ (Reverse or Forward Skip):

Press the reverse skip arrow to go to the start point. Select the forward skip arrow to go to the final destination.

⏮ ⏭ (Fast Reverse or Forward Scroll):

Press the fast reverse scroll arrow to go to the start point. Select the fast forward scroll arrow to go to the final destination. These buttons display once the reverse/forward scroll button has been selected.

⏸ (Pause): Pauses the route preview, while in reverse, fast reverse, forward, or fast forward scroll.

⏪ ⏩ (Reverse or Forward Scroll):

Press the reverse scroll arrow to go to the start point. Select the forward scroll arrow to go to the final destination.

Suspend/Resume Guidance

Press the Suspend/Resume Guidance screen button to suspend or resume guidance on the current route.

Previous Destinations

To delete all previous destinations from the system:

1. Press DEST.
2. Press the Previous Destination screen button.
3. Press the Clear All screen button.
4. Press OK to Clear All Previous Destination, or press the Cancel screen button to cancel this operation.

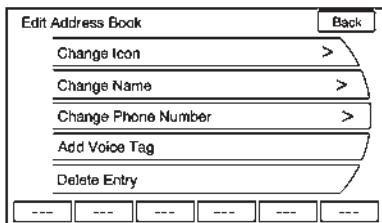
Address Book

Options for saving to the Address Book:

- **Scrolling on map or Pick from Map in the Dest Menu:** Scroll to the location. Press the Multifunction knob on the

faceplate. A menu displays on the left side of the screen. Press the Save screen button and the location is saved.

- **Address Entry:** Enter a destination through the Address Entry menu. Press the Save screen button and a menu displays with the Save option located on the bottom of the screen. Press the Save option to save this location to the Address Book.
- **POI Menu:** Select a POI. Press the Save screen button from the bottom of the information page display.
- **Previous Destination:** From the Previous Destination Menu, select the destination to save. Press the Save screen button at the bottom of the information page.



To change the map icon of an address book entry:

1. Press DEST.
2. Press the Address Book screen button. A list displays the address book entries.
3. Select the address book entry to be changed.
4. Press the Edit screen button.
5. Press the Change Icon screen button.
6. Select an icon from the list.
7. Press OK to save changes.

To edit the name of an address book:

1. Press DEST.

2. Press the Address Book screen button. A list displays the address book entries.
 3. Select the address book entry to be changed.
 4. Press the Edit screen button.
 5. Select the Change Name option.
 6. Use the Alpha keyboard to enter the name.
 7. Press OK to save changes.
- To add or change the phone number of an address book entry:
1. Press DEST.
 2. Press the Address Book screen button. A list of address book entries displays.
 3. Select the address book entry to be changed.
 4. Press the Edit screen button.
 5. Press the Change Phone Number screen button.

6. Use the numeric keyboard to enter or change the phone number.
7. Press OK to save changes.

To add a voice tag to an address book entry:

1. Press DEST.
2. Press the Address Book screen button. A list displays the address book entries.
3. Select the address book entry to be changed.
4. Press the Edit screen button.
5. Select Add Voice Tag.
6. Speak the name after the beep and within four seconds. The name is repeated back.

To delete an address book entry:

1. Press DEST.
2. Press the Address Book screen button. A list displays the address book entries.

3. Select the address book entry to be deleted.
4. Press the Delete screen button. A confirmation message displays.

To add a preset destination from the address book:

1. Press DEST.
2. Press the Address Book screen button.
3. Select the address book entry to add as a Preset. The Address Book Information screen displays.
4. Press the Edit screen button located at the bottom of the screen.
5. Press and hold one of the six preset screen buttons at the bottom of the screen until the text within the button changes.
6. The name appears in that preset destination screen button and can be selected from the Select Destination screen.

Favorite Route

1. After the route has been planned, press NAV until the full map screen is shown.
2. Press the Multifunction knob. A menu displays.
3. Scroll down and press the Whole Route option. The whole route map screen displays.
4. Press the Add Route screen button. The route is stored as a favorite.

To change the route name, add a voice tag, or delete a favorite route:

1. Press DEST.
2. Press the Fav Route screen button.
3. Select the route.
4. Press the Edit screen button.
5. Select from: Change Route Name, Add Voice Tag, or Delete Favorite Route screen buttons.

To change the route name:

1. Select the Change Route Name screen button.
2. Using the Keypad, enter the name.
3. Select the Favorite Route entry to be edited.
4. Press OK. The new name will be in the Favorite Route Menu.

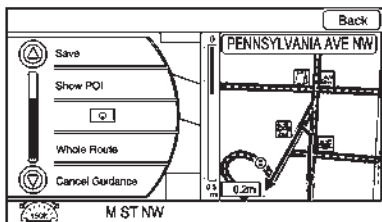
To add a voice tag:

1. Select Add Voice Tag.
2. Speak the name after the beep within four seconds. The name is repeated back.

To delete a favorite route:

1. Press the Delete Favorite Route screen button. The confirmation screen displays.
2. Press Yes to delete the route and No to cancel from deleting the route.

Menu Screen Button



Various navigation system settings are available through the Menu screen button. Some options are only available after a route is planned.

1. Press NAV to view the Map screen.
2. Press the Menu screen button or the Multifunction knob.

Map Heading



Press to change the view to North up, Heading up, or 3-D mode. See *Navigation Symbols on page 46*.

Traffic: Press to view the Traffic Information screen. See *Configure Menu on page 63*.

Save: Press to save a location to the Address Book.

Show POI: Press to turn POIs on or off. Select from a list of six pre-programmed POI

sub-categories. Scroll through a list of categories, or select nearby and on route options.

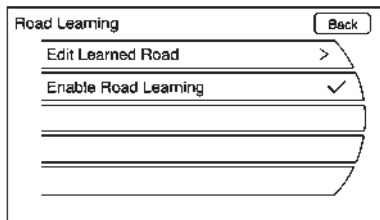


Press this screen button to minimize the guidance window and expand the map window.

Whole Route: Press to view the entire route from starting point to destination on the map.

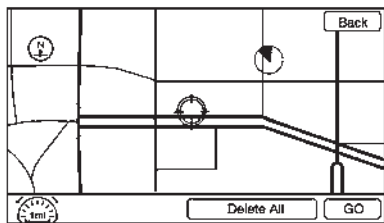
Cancel Guidance: Stops the current route.

Road Learning (If Equipped):

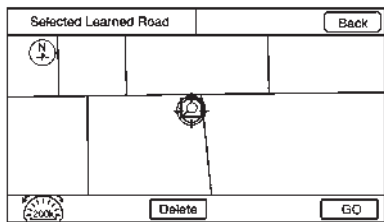


Press to display options such as Edit Road Learning and Enable Road Learning.

1. With Road Learning enabled, the system automatically learns a road that the vehicle has driven on twice during one or more ignition cycles. The vehicle must start on a known road in the database while driving to a known road, tracing a path using the GPS information to create the learned road. The learned road cannot be longer than 3 km (2 mi).
2. When the road has been learned, it becomes part of the map database. The map database will use the learned road if necessary to route a shorter route.
3. While on route guidance and in the map view, each learned road will display as a pointer. Select a pointer on the map, then press the Save screen button to store the selected learned roads to the Address Book as a destination when needed.
4. Not all roads can be learned. Some conditions may prevent roads from being learned. Examples that would lead to the prevention of learned roads are parking lots and restaurants.



- If the system has learned roads, press Edit Road Learning to display a map view of icons pinpointing the learned roads.



- Select one or more learned roads and press Delete or Delete All.

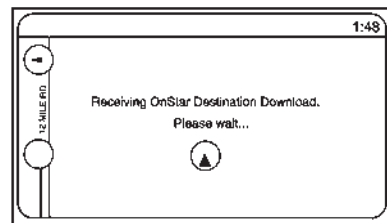
All learned roads are stored as map data and will be deleted when the Map is updated.

OnStar® Destination Download

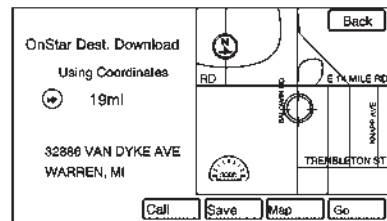
The Destination download lets an OnStar subscriber ask the OnStar call center to download a destination. OnStar will send address information and location coordinates of the destination into the navigation system.

Using Destination Download

If the navigation radio screen is turned off before a download, the system automatically turns the screen on and displays a download confirmation message. The radio remains on after the download.



The navigation system displays “Please Wait” as the address is searched within the map database.



If the address is not found within the map database, the system may use latitude and longitude coordinates to locate the destination. In this case, “Using Coordinates” displays on the downloaded screen.

If the system is unable to locate the address, the Destination Not Found screen displays.

Route Guidance Not Active

If an OnStar destination is downloaded while route guidance is not active, the navigation system displays a pop-up screen and performs the following screen functions:

- Press Go; the navigation system starts route calculation to the destination(s) received.
- Press the Map screen button; the navigation system displays the Destination Map Screen.
- Press the Call screen button; the navigation system initiates a call with a Bluetooth phone or OnStar Hands-Free Calling (if available).
- Press the Save screen button; the navigation system copies the downloaded destination to the address book and display the new address book entry. The

destination saves this download even if it is only partial information such as a phone number.

- Press the Back screen button; the navigation system cancels the OnStar destination download and returns to the previous screen. The downloaded address is not added to the previous destinations.

Route Guidance Active

If an OnStar destination is downloaded while route guidance is already active, the system displays a pop-up screen and performs the following screen function:

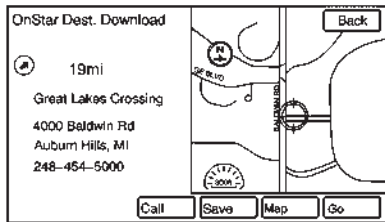
- Press Go; the navigation system adds the downloaded destination before the next waypoint of the existing route (closest to the current vehicle position).
- All other buttons on the pop-up screen operate as described under "Route Guidance Not Active."

Previous Destinations

Previously downloaded OnStar destinations are saved under Previous Destinations in the navigation system where they can be accessed or saved to the address book.

Map Destination Screen Functions

If the map screen is used to show destination, it has map screen capabilities such as Go, Save, Zoom, Scroll, etc. The address is shown at the top of the screen.



Destination Map Screen

Configure Menu

Adjust features and preferences through the Config Menu. The last selected menu screen displays. Adjust features for Sound, Radio, Nav (navigation), Display, or Time.

Radio

Press the Multifunction knob to enter the Config Menu. Turn the Multifunction knob until Radio displays. Press the Multifunction knob or press the Radio screen button to display other options. Select the desired option to make changes for radio information displayed, preset pages, and XM

categories restore (if equipped). See *Satellite Radio on page 15* (if equipped).

Nav (Navigation)

Press the Multifunction knob to enter the Config Menu. Turn the Multifunction knob until Nav displays. Press the Multifunction knob or press the Nav screen button to display the other options.

SiriusXM NavTraffic® (If Equipped)

The navigation system might have a SiriusXM NavTraffic receiver. It is a subscription service provided through SiriusXM Satellite Radio. A service fee is required to receive the SiriusXM NavTraffic service. Real-time traffic information is provided to fully integrate the navigation system to display current traffic conditions for the chosen route.

A screen displays to indicate that the SiriusXM NavTraffic subscription is not activated.

If activated, traffic information displays:

- Unscheduled traffic incident data, such as accidents and disabled vehicles
- Scheduled traffic incident data, such as road construction and road closures
- Traffic flow information (rate of speed data). Flow data might not be available in all markets.

Traffic information is delivered to the vehicle by the XM Radio satellites. SiriusXM NavTraffic provides continuously updated traffic information.

SiriusXM NavTraffic currently broadcasts the traffic information for many markets nationally. The service may be available in more cities in the future. See www.siriusxm.com/navtraffic for more details on local coverage.

64 Infotainment System

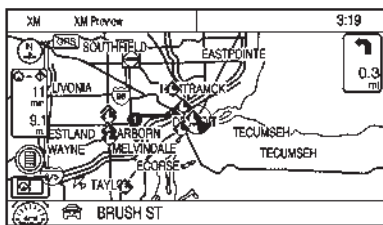
To turn SiriusXM NavTraffic on or off:

1. Press the Multifunction knob to enter the Config setup menu. Turn the Multifunction knob until Nav displays. Press the Multifunction knob or press the Nav screen button to display the other options.
2. Press the Traffic Information screen button.
3. Select the Traffic button. This button highlights and a check mark displays when active.

Selecting Alert for Approaching Traffic Events displays a screen to notify of possible traffic events ahead.

Traffic Icon

When traffic conditions are found in the local area, the Traffic Icon appears in the lower left-side of the map.



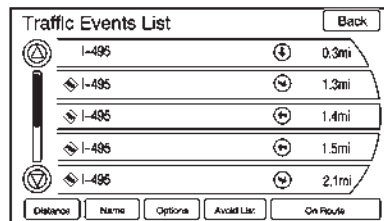
The Traffic Icon has three different condition displays:

- No icon displays if there is no XM NavTraffic subscription or traffic events.
- A single car icon displays if there are traffic events in the area, but none are on route.
- A multiple car icon displays if there are traffic events on the route.

It could take some time to sort the received information. The list of traffic conditions displays in the order of distance from the vehicle, for up to approximately 125 km

(75 mi). With a route planned, traffic events display on the route. Not all traffic conditions may display.

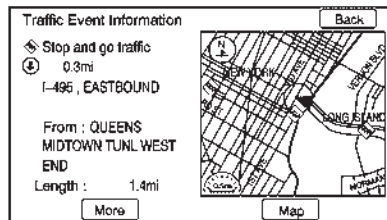
To view the traffic condition location and information on the map:



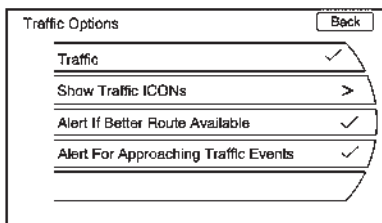
1. Press NAV to show the map, then press the Multifunction knob for the map menu.
2. Scroll down and select the Traffic screen button. A list of traffic conditions with distance from the vehicle's current position displays.

An arrow can appear before the distance. The arrow indicates the distance is a straight line distance and the direction of the

event from the vehicle's current position. If no arrow appears, the distance indicates how far the event is ahead on current route. No more than three pages of traffic events may be viewed while the vehicle is moving.

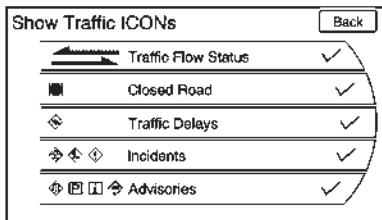


3. Select a traffic condition to get more detailed information.



Select the Options screen button. A Traffic Options menu displays. Select the traffic related option.

Traffic: Select to enable or disable the traffic function.



Show Traffic ICONs: Select to display traffic icons on the map screen. Also, select what traffic information displays.

Traffic Flow Status – Enables or disables the green, yellow, red and black arrows that display beside the roads and shows the traffic flow or extent of a traffic event.

- Black indicates a closed road segment.
- Red indicates significantly impaired traffic flow with average speed of less than 40 km (25 mph).
- Yellow indicates slightly impaired traffic flow with average speed between 40 km and 73 km (25 and 45 mph).
- Green indicates normal traffic flow with average speed above 73 km (45 mph).

Traffic flow data arrows display on the map when scaled up to eight miles. Closed Road, Traffic

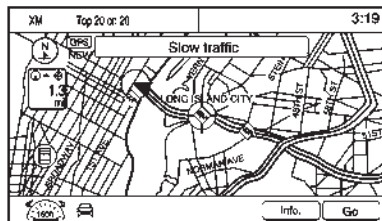
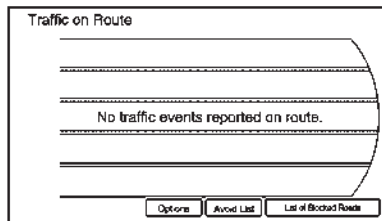
Delays, Incidents, and Advisories – Select the traffic event ICONS that appear on the map screens.

Alert for Approaching Traffic Events:

When On, if an approaching traffic event is within the alert range, one of two traffic alerts displays:

- With no route planned, while on expressways, Approaching Traffic Event without Avoid screen displays.
- With route planned, Traffic Event on Route screen displays. If the Alert for Approaching Traffic Events is Off, the alert does not display.

On Route



Select On Route to display all events ahead on the current active route. No traffic events reported on route displays if there are none to report.

Name

Select Name to display traffic events in alphabetical order.

Distance

Select Distance to display traffic events in order of distance with the closest event shown first.

Traffic events update approximately every two minutes.


Scrolling to Traffic Events on the Map


While scrolling the map, the traffic event icons can appear indicating a traffic event within 125 km (75 mi) from current position. To receive information about the traffic event, place the crosshairs over the traffic condition icon. Traffic events beyond 125 km (75 mi) from current position will not be displayed.


Select **i** to display the type of traffic, the street name, and a description of the traffic event.


Traffic Event Display Categories

The following are traffic event categories and symbols that can appear on the display:


 **(Road Closed):** Road and/or ramps closed.


 **(Stopped Traffic):** Traffic stopped, stop and go traffic, delayed and congested traffic.


 **(Alert):** Object on the roadway, disabled vehicle, or dangerous road conditions.


 **(Accident):** Roadway obstructed due to accident.

 **(Road Works):** Delayed traffic due to construction.

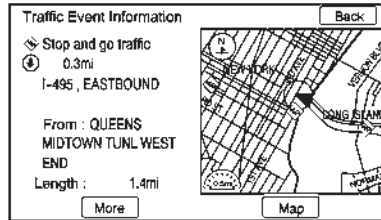
 **(Road Condition):** Delayed or stopped traffic, lane blocked or closed due to a road condition.

 **(Weather):** Heavy rain, snow, or fog weather condition.

 **(Parking):** Available parking area.

 **(Information):** Special event, general information, or warning.

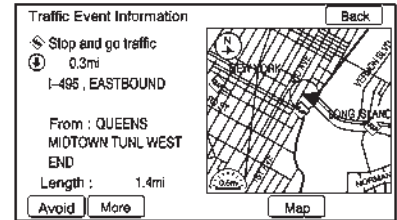
Traffic Event Information



Use to display additional details of a traffic event. This screen can display when:

- Scrolling to an event on the map and then pressing INFO.
- Selecting a traffic event listed on the Traffic Event List screen.
- Approaching a traffic event.

Back, Map, More, and Avoid



These buttons have common functions across all Detailed Traffic Event screens.

Back: Return to the previous screen.

Map: Displays related traffic events on the map if available.

More: More information is available for the traffic event.

Avoid: Select to avoid the location of an event on the route and calculate a new route. The full map screen shows the new route. The Avoid button is only available if the event is on the route ahead.

Traffic Voice Prompts

The traffic voice prompts are part of the current navigation voice prompt settings. The traffic voice prompt can be turned on and off by selecting Traffic Voice Prompt in Voice Prompt on the CONFIG Nav screen. If the navigation voice prompts are turned off, all traffic prompts are also turned off.

If the voice prompts are on and an Alert for Approaching Traffic displays, the related voice prompt is provided.

RPT (Repeat) does not repeat traffic prompts, only navigation traffic maneuvers. The current prompt playback cancels if RPT is pressed during a traffic voice prompt.

Traffic prompts are disabled during OnStar® (if equipped) or Voice Recognition activity.

Alternate Route

When Detour Available displays, a possible quicker route is available and an alternate route can be

selected to detour around the traffic condition. Press Yes and a new route is calculated. This option is only available when the multiple car icon appears.

SiriusXM NavTraffic® information might not be provided for the alternate route, depending on what type of road the vehicle is traveling on.

Traffic Condition Symbols

The following traffic condition symbols may display:



Stopped Traffic



Traffic Jam



Accident



Road Closed



Lane Narrows



**Road Work,
Construction**



Alert



Road Condition



Road Visibility



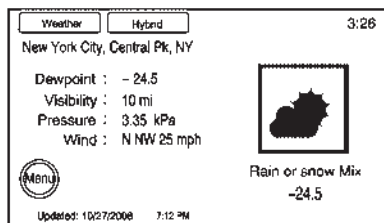
Other

XM Weather (If Equipped)

Press **i**, then press **i** again until the Weather screen button is selected, or press the Weather screen button.

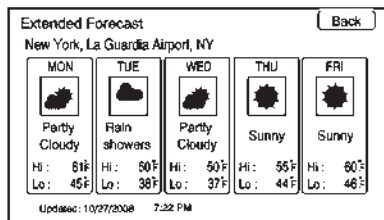
Current Condition

Press **i** until the Weather tab is selected to show the current weather condition of the city of the vehicle's current position.



Weather data is deleted when the vehicle is off for four hours. Allow up to 15 minutes with a clear XM signal for new weather information to download. During this time the screen will be blank.

Extended Forecast



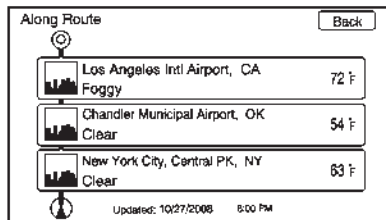
Select the Menu button by pressing the Multifunction knob to show the Weather Menu screen. From this screen, select the Extended Forecast screen button.

Weather Along the Route

If a destination is set while driving along the route, there is the option to view weather conditions for up to three locations:

- Current vehicle's position.
- Midway point from current position to final destination.
- The current weather condition of the destination city.

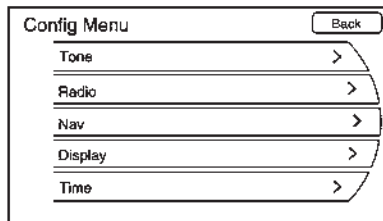
From the XM Weather Menu Screen, select Along the Route:



Weather Alerts

From the XM Weather Menu, select Weather Alerts to display any current weather advisory warnings in effect near the current position.

Display



Press the Multifunction knob to enter the Config setup menu features. Turn the Multifunction knob until the Display feature displays. Press the Multifunction knob or press the Display screen button to display the other options.

Dimming Mode

Auto (Automatic): Automatically adjust the screen background depending on exterior lighting conditions.

Day: The map background brightens.

Night: The map background darkens.

To change the overall brightness setting for the display, use the vehicle interior lighting dimming control.

Setting the Clock

To set the time:

1. Press the Multifunction knob to enter the config setup menu features. Turn the Multifunction knob until the Clock feature displays. Press the Multifunction knob or press the Clock screen button to display the other options.
2. Press the Hours and Minutes – and + signs to decrease and to increase the time.

12/24 HR Format: Select the 12 HR screen button for standard time; select the 24 HR screen button for military time.

Day + or Day -: Press the day + or day - display buttons to increase or decrease the day.

Global Positioning System (GPS)

The position of the vehicle is determined by using satellite signals, various vehicle signals, and map data.

At times, other interferences such as the satellite condition, road configuration, the condition of the vehicle and/or other circumstances can interfere with the navigation system's ability to determine the accurate position of the vehicle.

The GPS shows the current position of the vehicle using signals sent by the GPS Satellites of the United States Department of Defense. When the vehicle is not receiving signals from the satellites, a symbol appears on the map screen. See *Navigation Symbols on page 46*.

This system might not be available or interferences can occur if any of the following is true:

- Signals are obstructed by tall buildings, trees, large trucks, or a tunnel.
- Objects are located on the rear shelf of the vehicle.
- Satellites are being repaired or improved.

For more information if the GPS is not functioning properly, see "If the System Needs Service" and "Problems with Route Guidance."

Vehicle Positioning

At times, the position of the vehicle on the could be inaccurate due to one or more of the following reasons:

- The road system has changed.
- Driving on slippery road surfaces such as in sand, gravel and/ or snow.

- Traveling on winding roads or long straight roads.
- Approaching a tall building or a large vehicle.
- The surface streets run parallel to a freeway.
- The vehicle has been transferred by a vehicle carrier or a ferry.
- The current position calibration is set incorrectly.
- Traveling at high speed.
- The vehicle changes directions more than once, or when the vehicle is turning on a turn table in a parking lot.
- The vehicle is entering and/or exiting a parking lot, garage or a lot with a roof.
- The GPS signal is not received.
- A roof carrier is installed on the vehicle.
- Tire chains have been installed.
- The tires are replaced or worn.

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- The tire pressure for the tires is incorrect.
- The first navigation use after the map data is updated.
- The battery is disconnected for several days.
- The vehicle is driving in heavy traffic where driving is at low speeds, and the vehicle is stopped and started repeatedly.

Problems with Route Guidance

Inappropriate route guidance can occur under one or more of the following conditions:

- The turn was not made on the road indicated.
- Route guidance might not be available when using automatic rerouting for the next right or left turn.
- The route might not be changed when using automatic rerouting.

- There is no route guidance when turning at an intersection.
- Plural names of places might be announced occasionally.
- It could take a long time to operate automatic rerouting during high-speed driving.
- Automatic rerouting might display a route returning to the set waypoint if heading for a destination without passing through a set waypoint.
- The route prohibits the entry of a vehicle due to a regulation by time or season or any other regulation which may be given.
- Some routes might not be searched.
- The route to the destination might not be shown if there are new roads, if roads have recently changed or if certain roads are not listed in the map data. See *Maps on page 45* for more information.

To recalibrate the vehicle's position on the map, park the vehicle with the engine running for two to five minutes, until the vehicle position updates.

If the System Needs Service

If the navigation system needs service and the steps listed here have been followed but there are still problems, see your dealer for assistance.

Map Data Updates

The map data in the vehicle is the most up-to-date information available when the vehicle was produced. The map data is updated periodically, provided that the map information has changed.

For questions about the operation of the navigation system or the update process, contact the GM Nav Disc Center toll-free phone number, 1-877-NAV-DISC (1-877-628-3472) or go to the center's website,

www.gmnavdisc.com. If updates are needed, call the GM Nav Disc Center or order a new disc online. To order a disc, have the vehicle's Vehicle Identification Number (VIN) available. This helps the center make sure that the correct and most up-to-date map data for the vehicle is received. See "Vehicle Identification Number (VIN)" in the owner manual for more information.

After receiving the updated disc, see *Maps on page 45*.

Database Coverage Explanations

Coverage areas vary with respect to the level of map detail available for any given area. Some areas feature greater levels of detail than others. If this happens, it does not mean there is a problem with the system. As the map data is updated, more detail can become available for areas which previously had limited detail. See *Map Data Updates on page 72* for more information.

Voice Recognition

The navigation system's voice recognition allows for hands free operation of the navigation system and the audio system features.

If the radio is off, the only commands would be Hands Free and Help.

Navigation voice commands are not available until the OK button has been selected.

Voice recognition can be used when the ignition is on or when Retained Accessory Power (RAP) is active. See "Retained Accessory Power (RAP)" in the owner manual.

Using Voice Recognition



1. Press and hold the SRCE steering wheel control button for approximately four seconds. The audio system mutes, and a beep is heard. A voice prompt stating, "Please start speaking after the beep" might be heard.

If there is no beep, make sure that the voice volume setting is not turned down. See "Navigation Settings" under *Using the Navigation System on page 41*.

While voice recognition is active, the system displays a symbol.

2. Clearly speak one of the commands listed later in this section.

Canceling Voice Recognition

1. Press and release the  /  steering wheel control button to cancel a command, or if the system response does not match the verbal command.

2. The system replies, "Voice recognition canceled."
Pressing any other radio or steering wheel control, other than the volume knob or the volume steering wheel control button cancels the session.
3. Press and hold the SRCE steering wheel control button to restart the voice recognition session.

Helpful Hints for Speaking Commands

- When a multiple command is available, choose the command that best works for you.
- Words that are in brackets are optional. For example, the command "Radio [band] FM," saying "Radio FM" or "Radio Band FM" are both valid commands.
- Words that are separated by a (/) mean there is a choice of using a word on either side of the slash. For example, the

command (CD/DVD/Disc) [help], you can say "CD [help]" or "DVD [help]" or "Disc [help]."

- When the system recognizes the command the system will either perform the function or ask to confirm the choice by clearly saying "yes" or "no."
- When the system does not recognize the command, the system issues an error message such as "pardon" or "command not recognized." The system could also say, "voice recognition canceled."
- If experiencing difficulty with the system recognizing a command, confirm that the command is correct. Try saying the command clearly or wait for a brief moment after the beep.
- Background noise such as a climate control fan positioned on high, open windows, and very loud outside noises, even if the

windows are closed, can cause voice commands to be misunderstood

- This system is able to recognize commands in different languages, such as English, French (Canadian), and Spanish. The system only recognizes commands based on the language selected.
- To increase or decrease the voice volume during a voice recognition session, turn the volume knob of the radio, or press the volume steering wheel control buttons. If the volume is adjusted during a voice recognition session, a Voice Volume bar appears on the screen showing the voice volume level as it is being adjusted. This also changes the volume of the guidance prompts.

Voice Recognition Help

To enter the help playback session, clearly speak one of the help commands.

Help: Specific help commands (such as Radio Help, Display Help, Navigation Help) for the user to choose from.

Radio [help]: Helpful advice about radio commands, and some common radio commands which are available. Use this command to learn about how to select a band (AM or FM), and how to change radio stations (by speaking frequency numbers).

(CD/DVD/ Disc) [help]: Helpful advice about disc commands, and some common disc commands which are available. Use this command to learn about how to select Disc mode playback, and how to change track numbers.

Display [help]: Helpful advice about display commands, and some common display commands which are available to adjust the display setting.

Navigation [help]: Helpful advice about navigation commands, and some common navigation commands which are available.

Voice Recognition Commands

The following list shows the voice commands available for the navigation system with a brief description of each. The commands are listed with the optional words in brackets. To use the voice commands, see the instruction listed previously.

Display Commands

Display [set] day [mode], display [select] day [mode]: Instructs the system to switch the display to day mode.

Display [set] night [mode], display [select] night [mode]: Instructs the system to switch the display to night mode.

Display [set] auto [mode], display [select] auto [mode]: Instructs the system to switch the display to auto mode.

Display [help]: Instructs the system to play back helpful advice about display commands, and some common display commands which are available to adjust the display setting.

Radio Commands

Radio AM, radio [band] AM, radio FM, radio [band] FM, radio XM (if equipped), radio [band] XM (if equipped): Instructs the system to go to either the AM, FM, or XM (if equipped) radio bands.

Radio select (frequency) AM, radio select (frequency) FM: Instructs the system to go to a specific frequency on either the AM or FM band. For example, radio select ninety seven point one FM or radio select ten forty AM.

Radio select (channel) XM (if equipped): Instructs the system to go to a specific channel on the XM band (if equipped). For example, radio select one fifty one XM.

Radio [help]: Instructs the system to play back some helpful advice about radio commands, and some common radio commands which are available to the user.

CD/DVD/Disc Commands

The following commands are only available when a CD, MP3, or DVD is loaded.

Radio CD, radio DVD, radio

Disc: Instructs the system to go to Disc mode.

Radio CD select (track number), radio DVD select (track number), radio disc select (track number):

Instructs the system to play a specific track on the Disc. For example, radio disc select ten. This command supports up to 254 tracks.

CD [help], DVD [help], disc

[help]: Instructs the system to play back helpful advice about disc commands, and some common disc commands which are available.

General Navigation Commands

Feedback on, feedback off:

Instructs the system to turn on and off the voice recognition feedback. When feedback is ON, the system responds to commands with a talk back phrase. When feedback is OFF, the system responds to commands with a chime.

Navigation voice [guidance] on, navigation voice [guidance] off:

Instructs the system to turn on and off voice guidance prompts during route guidance.

Cancel: Instructs the system to cancel the command.

Point of Interest (POI) Commands

The following is a list of POI commands. POIs only display on the map screen if the map scale is 800 m (0.50 mi) or fewer. If POIs display on a map with the wrong scale, the system reminds that this cannot be done. The available POI commands are:

Navigation show/hide gas station[s], navigation show/hide

gas: Instructs the system to display and hide gas station POIs on the map screen.

Navigation show/hide restaurant[s], navigation show/hide

hide dining: Instructs the system to display and hide restaurant POIs on the map screen.

Navigation show/hide ATM[s]:

Instructs the system to display and hide ATM POIs on the map screen.

Navigation show/hide hotel[s]:

Instructs the system to display and hide hotel POIs on the map screen.

Navigation show/hide airport[s]:

Instructs the system to display and hide airport POIs on the map screen.

Navigation show/hide shop[s], navigation show/hide shopping:

Instructs the system to display and hide shopping POIs on the map screen.

Destination and Guidance Commands**Navigation [go to] preset**

destination [number] (one, two, three, four, five, or six): Instructs the system to set one of the preset destinations one through six as the new destination.

Navigation delete: Instructs the system to delete the destination, route, or next waypoint. The system requests a confirmation of which item should be deleted (destination, route, or next waypoint).

Destination (available for English language only): Instructs the system that the user wants to enter

a destination using voice recognition. After this command is stated, the system displays a state abbreviation (such as NY for New York). If the destination to be entered is located in the displayed state, then say the desired city name. Otherwise, say "Change State" and say the state name the search should take place in. Then, say the desired city name when prompted, and say the desired street name and house number when prompted.

For example, if Cedar Point Amusement is the set destination, which has the following address:

Cedar Point Amusement Park

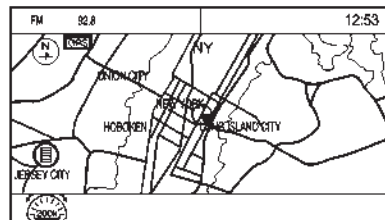
1 Cedar Point Drive

Sandusky, OH 44870

Set the Destination by using Voice Recognition:

1. Press and release the SRCE steering wheel control button. The audio system mutes, and a beep is heard.

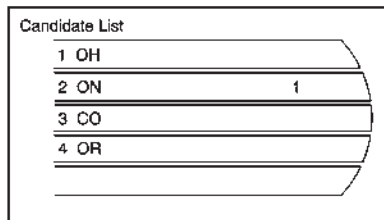
2. Say the command "Destination". The system replies with "Please say city name or change state," and the system shows a pop-up list of an abbreviated state name, such as NY for New York. If the state is correct, then go to Step 4. Otherwise, say "Change State."



For example, if the desired destination is in Ohio, but the system shows New York (NY) in the pop-up list, say "Change State."

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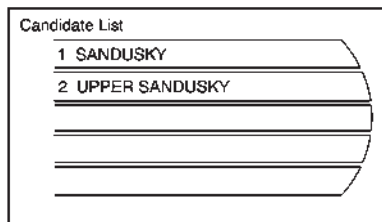
3. After saying, "Change State," the system replies with "Please say state name." Say the correct state.



Candidate List

1 OH	
2 ON	1
3 CO	
4 OR	

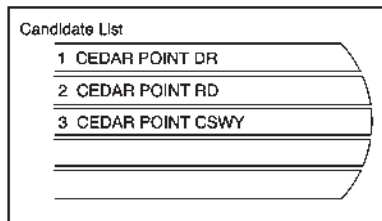
The state name displays. In some cases the radio shows a candidate list with the closest matches to the spoken state name. The system asks the user to select an item from the candidate list either by pressing the desired choice, or by saying the list number of the desired choice.



Candidate List

1 SANDUSKY	
2 UPPER SANDUSKY	

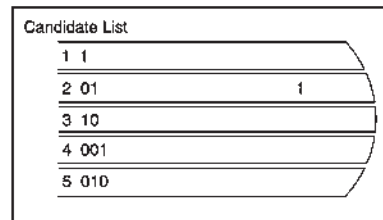
4. The system asks the user to say the city name. As shown earlier, the radio can display a candidate list with the closest matches to the spoken city name. Say the correct city name.



Candidate List

1 CEDAR POINT DR	
2 CEDAR POINT RD	
3 CEDAR POINT CSWY	

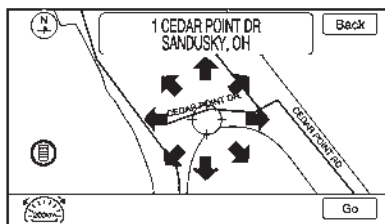
5. Reply with the street name including the suffix (Blvd, Ave, Rd, etc.), when prompted. The radio might display a candidate list with the closest matches to the spoken street name. Say the correct street name.



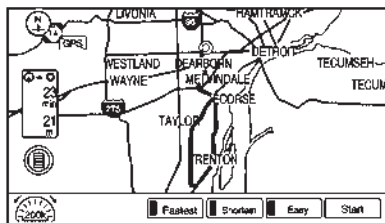
Candidate List

1 1	
2 01	1
3 10	
4 001	
5 010	

6. Reply with the house number with prompted. The radio might display a candidate list with the closest matches to the spoken house number. Say the house number as single digit.



7. Confirm the correct address is displayed, then reply with yes or no, when prompted.



8. This address is now set as the destination. Select the Start Guidance screen button to begin destination guidance.

Voice Tag Commands

Voice Tags are recorded phrases that can be stored in the navigation system. These voice tags are associated with Address Book Entries, and once these voice tags are stored, they can be used as part of a voice recognition command that sets the particular address book entry as a destination. See the Address Book and Voice Tag sections earlier in this manual for information about instructions on how to store a voice tag in the system.

Navigation [go to] (voice tag):

This command allows selection of a destination saved under the stored voice tag. The system plays back the voice tag and asks to confirm by saying yes or no.

If a destination is set to “Home,” say “Navigation go to Home.” After the system plays back the voice tag and it is confirmed, the system sets “Home” as the destination.

OnStar (If Equipped) Command

Hands Free: This command instructs the system to connect to OnStar. Enter the OnStar voice recognition system. See “OnStar” in the owner manual.

Help Commands

- Help
- Radio [help]
- CD help, DVD help, Disc help
- Display [help]
- Navigation [help]

Display Commands

- Display [set/select] day [mode]
- Display [set/select] night [mode]
- Display [set/select] auto [mode]

Radio Commands

- [radio/radio band] AM
- [radio/radio band] FM
- [radio/radio band] XM

- Radio select <frequency> AM
- Radio select <frequency> FM
- Radio select <frequency> XM

CD/DVD/Disc Commands

- Radio [CD/DVD/Disc]
- Radio [CD/DVD/Disc] select <track number>

General Navigation Commands

- Feedback On
- Feedback Off
- Navigation voice [guidance] on
- Navigation voice [guidance] off
- [cancel/goodbye/quit]

Point of Interest (POI) Commands

- Navigation show [gas/gas station/gas stations]
- Navigation show [dining/restaurant/restaurants]
- Navigation show [ATM/ATMs]
- Navigation show [hotel/hotels]
- Navigation show [airport/airports]

- Navigation show [shop/shops]
- Navigation hide [gas/gas station/gas stations]
- Navigation hide [dining/restaurant/restaurants]
- Navigation hide [ATM/ATMs]
- Navigation hide [hotel/hotels]
- Navigation hide [airport/airports]
- Navigation hide [shop/shops]

Destination and Guidance Commands

- Navigation [go to] preset destination [number] one
Repeat numbers two through six.
- Navigation delete [destination/route/next waypoint]
- Route (used in conjunction with another command)
- Next waypoint (used in conjunction with another command)

- Add to waypoint (used in conjunction with another command)
- Replace destination (used in conjunction with another command)
- Yes (used in conjunction with another command)
- No (used in conjunction with another command)
- Destination (used for Destination VR entry, available in English language only)

Voice Tag Commands

- Navigation [go to] <Voice Tag>

OnStar Command (If Equipped)

- Hands Free

Phone

Bluetooth

For vehicles equipped with Bluetooth capability, the system can interact with many cell phones, allowing:

- Placement and receipt of calls in a hands-free mode.
- Sharing of the cell phone's address book or contact list with the vehicle.

To minimize driver distraction, before driving, and with the vehicle parked:

- Become familiar with the features of the cell phone. Organize the phone book and contact lists clearly and delete duplicate or rarely used entries. If possible, program speed dial or other shortcuts.
- Review the controls and operation of the infotainment system.

- Pair cell phone(s) to the vehicle. The system may not work with all cell phones. See "Pairing" in this section.
- If the cell phone has voice dialing capability, learn to use that feature to access the address book or contact list. See "Voice Pass-Thru" in this section.
- See "Storing and Deleting Phone Numbers" in this section.

Warning

When using a cell phone, it can be distracting to look too long or too often at the screen of the phone or the infotainment system. Taking your eyes off the road too long or too often could cause a crash resulting in injury or death. Focus your attention on driving.

A Bluetooth system can use a Bluetooth-capable cell phone with a Hands-Free Profile to make and

receive phone calls. The system can be used while the key is in the ON/RUN or ACC/ACCESSORY position. The range of the Bluetooth system can be up to 9.1 m (30 ft). Not all phones support all functions, and not all phones work with the in-vehicle Bluetooth system. See www.gm.com/bluetooth for more information on compatible phones.

Voice Recognition

The Bluetooth system uses voice recognition to interpret voice commands to dial phone numbers and name tags.

For additional information, say "Help" while you are in a voice recognition menu.

Noise: Keep interior noise levels to a minimum. The system may not recognize voice commands if there is too much background noise.

When to Speak: A short tone sounds after the system responds indicating when it is waiting for a voice command. Wait until the tone and then speak.



How to Speak: Speak clearly in a calm and natural voice.



Audio System

When using the in-vehicle Bluetooth system, sound comes through the vehicle's front audio system speakers and overrides the audio system. Use the audio system volume knob, during a call, to change the volume level. The adjusted volume level remains in memory for later calls. To prevent missed calls, a minimum volume level is used if the volume is turned down too low.

Bluetooth Controls

Use the buttons located on the steering wheel to operate the in-vehicle Bluetooth system. See "Steering Wheel Controls" in the owner manual.

 /  (**Push To Talk**): Press to answer incoming calls, confirm system information, and start speech recognition.

 /  (**Push To End**): Press to end a call, reject a call, or cancel an operation.

Pairing



A Bluetooth enabled cell phone must be paired to the Bluetooth system and then connected to the vehicle before it can be used. See the cell phone manufacturer's user guide for Bluetooth functions before pairing the cell phone. If a Bluetooth phone is not connected, calls will be made using OnStar Hands-Free Calling, if equipped. See "OnStar" in the owner manual.

Pairing Information

- A Bluetooth phone with MP3 capability cannot be paired to the vehicle as a phone and an MP3 player at the same time.

- Up to five cell phones can be paired to the Bluetooth system.
- The pairing process is disabled when the vehicle is moving.
- Pairing only needs to be completed once, unless the pairing information on the cell phone changes or the cell phone is deleted from the system.
- Only one paired cell phone can be connected to the Bluetooth system at a time.
- If multiple paired cell phones are within range of the system, the system connects to the first available paired cell phone in the order that they were first paired to the system. To connect to a different paired phone, see "Connecting to a Different Phone" later in this section.

Pairing a Phone



1. Press and hold  /  for two seconds.

2. Say "Bluetooth." This command can be skipped.
3. Say "Pair." The system responds with instructions and a four-digit Personal Identification Number (PIN). The PIN is used in Step 5.
4. Start the pairing process on the cell phone that you want to pair. For help with this process, see the cell phone manufacturer's user guide.
5. Locate the device named "Your Vehicle" in the list on the cell phone. Follow the instructions on the cell phone to enter the PIN that was provided in Step 3. After the PIN is successfully entered, the system prompts you to provide a name for the paired cell phone. This name will be used to indicate which phones are paired and connected to the vehicle. The system responds with "<phone name> has been successfully paired" after the pairing process is complete.

6. Repeat Steps 1–5 to pair additional phones.



Listing All Paired and Connected Phones

The system can list all cell phones paired to it. If a paired cell phone is also connected to the vehicle, the system responds with "is connected" after that phone name.

1. Press and hold  /  for two seconds.
2. Say "Bluetooth."
3. Say "List."

Deleting a Paired Phone



If the phone name you want to delete is unknown, see "Listing All Paired and Connected Phones."

1. Press and hold  /  for two seconds.
2. Say "Bluetooth."
3. Say "Delete." The system asks which phone to delete.

4. Say the name of the phone you want to delete.

Connecting to a Different Phone

To connect to a different cell phone, the Bluetooth system looks for the next available cell phone in the order in which all the available cell phones were paired. Depending on which cell phone you want to connect to, you may have to use this command several times.

1. Press and hold  /  for two seconds.
2. Say "Bluetooth."
3. Say "Change phone."
 - If another cell phone is found, the response will be "<Phone name> is now connected."
 - If another cell phone is not found, the original phone remains connected.

Storing and Deleting Phone Numbers

The system can store up to 30 phone numbers as name tags in the Hands-Free Directory that is shared between the Bluetooth and OnStar systems, if equipped.

The following commands are used to delete and store phone numbers.



Store: This command will store a phone number, or a group of numbers as a name tag.

Digit Store: This command allows a phone number to be stored as a name tag by entering the digits one at a time.

Delete: This command is used to delete individual name tags.

Delete All Name Tags: This command deletes all stored name tags in the Hands-Free Calling Directory and the OnStar Turn-by-Turn Destinations Directory, if equipped.



Using the “Store” Command

1. Press and hold  /  for two seconds.
2. Say “Store.”
3. Say the phone number or group of numbers you want to store all at once with no pauses, then follow the directions given by the system to save a name tag for this number.

Using the “Digit Store” Command



If an unwanted number is recognized by the system, say “Clear” at any time to clear the last number.

To hear all of the numbers recognized by the system, say “Verify” at any time.

1. Press and hold  /  for two seconds.
2. Say “Digit Store.”
3. Say each digit, one at a time, that you want to store. After each digit is entered, the system

repeats back the digit it heard followed by a tone. After the last digit has been entered, say “Store,” and then follow the directions given by the system to save a name tag for this number.



Using the “Delete” Command

1. Press and hold  /  for two seconds.
2. Say “Delete.”
3. Say the name tag you want to delete.

Using the “Delete All Name Tags” Command

This command deletes all stored name tags in the Hands-Free Calling Directory and the OnStar Turn-by-Turn Destinations Directory, if equipped.



To delete all name tags:

1. Press and hold  /  for two seconds.
2. Say “Delete all name tags.”

Listing Stored Numbers

The list command will list all stored numbers and name tags.

Using the “List” Command

1. Press and hold  /  for two seconds.
2. Say “Directory.”
3. Say “Hands-Free Calling.”
4. Say “List.”

Making a Call


Calls can be made using the following commands.

Dial or Call: The dial or call command can be used interchangeably to dial a phone number or a stored name tag.

Digit Dial: This command allows a phone number to be dialed by entering the digits one at a time.

Re-dial: This command is used to dial the last number used on the cell phone.

Using the “Dial” or “Call” Command

1. Press and hold  /  for two seconds.
2. Say “Dial” or “Call.”
3. Say the entire number without pausing, or say the name tag.



Once connected, the person called will be heard through the audio speakers.

Using the “Digit Dial” Command

The digit dial command allows a phone number to be dialed by entering the digits one at a time. After each digit is entered, the system repeats back the digit it heard followed by a tone.



If an unwanted number is recognized by the system, say “Clear” at any time to clear the last number.

To hear all of the numbers recognized by the system, say “Verify” at any time.

1. Press and hold  /  for two seconds.
2. Say “Digit Dial.”
3. Say each digit, one at a time, that you want to dial. After each digit is entered, the system repeats back the digit it heard followed by a tone. After the last digit has been entered, say “Dial.”

Once connected, the person called will be heard through the audio speakers.





Using the “Re-dial” Command

1. Press and hold  /  for two seconds.
2. After the tone, say “Re-dial.”

Once connected, the person called will be heard through the audio speakers.







Receiving a Call

When an incoming call is received, the audio system mutes and a ring tone is heard in the vehicle.

- Press  /  to answer the call.
- Press  /  to ignore a call.





Call Waiting

Call waiting must be supported on the cell phone and enabled by the wireless service carrier.

- Press  /  to answer an incoming call when another call is active. The original call is placed on hold.
- Press  /  again to return to the original call.
- To ignore the incoming call, no action is required.
- Press  /  to disconnect the current call and switch to the call on hold.

Three-Way Calling

Three-way calling must be supported on the cell phone and enabled by the wireless service carrier.



1. While on a call, press  / .
2. Say “Three-way call.”
3. Use the dial or call command to dial the number of the third party to be called.
4. Once the call is connected, press  /  to link all callers together.



Ending a Call

Press  /  to end a call.

Muting a Call

During a call, all sounds from inside the vehicle can be muted so that the person on the other end of the call cannot hear them.

- To mute a call, press  / , and then say “Mute call.”

- To cancel mute, press  / , and then say “Un-mute call.”



Transferring a Call

Audio can be transferred between the Bluetooth system and the cell phone.



The cell phone must be paired and connected with the Bluetooth system before a call can be transferred. The connection process can take up to two minutes after the ignition is turned to ON/RUN.

Transferring Audio from the Bluetooth System to a Cell Phone

During a call with the audio in the vehicle:

1. Press  / .
2. Say “Transfer Call.”

Transferring Audio to the Bluetooth System from a Cell Phone



During a call with the audio on the cell phone, press  / . The audio transfers to the vehicle. If the audio

does not transfer to the vehicle, use the audio transfer feature on the cell phone. See your cell phone manufacturer's user guide for more information.

Voice Pass-Thru

Voice pass-thru allows access to the voice recognition commands on the cell phone. See your cell phone manufacturer's user guide to see if the cell phone supports this feature.

To access contacts stored in the cell phone:



1. Press and hold  /  for two seconds.
2. Say "Bluetooth." This command can be skipped.
3. Say "Voice." The system responds "OK, accessing <phone name>."

The cell phone's normal prompt messages will go through their cycle according to the phone's operating instructions.

Dual Tone Multi-Frequency (DTMF) Tones

The Bluetooth system can send numbers and the numbers stored as name tags during a call. You can use this feature when calling a menu-driven phone system. Account numbers can also be stored for use.

Sending a Number or Name Tag During a Call

1. Press  / . The system responds "Ready," followed by a tone.
2. Say "Dial."
3. Say the number or name tag to send.

Clearing the System

Unless information is deleted out of the in-vehicle Bluetooth system, it will be retained indefinitely. This includes all saved name tags in the phone book and phone pairing information. For information on how to delete this information, see the

previous section "Deleting a Paired Phone" and the previous sections on deleting name tags.

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